

Photo 226460

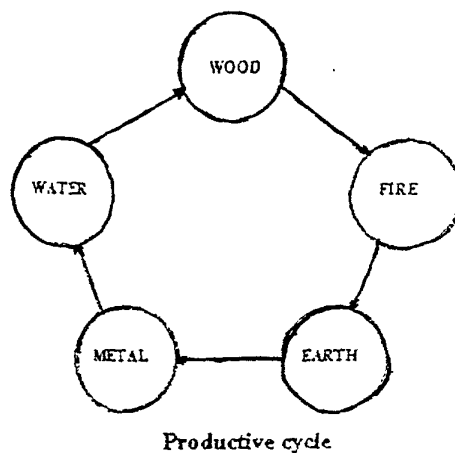


Figure A shows the element that helps the other element

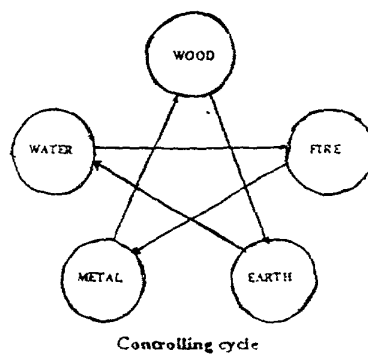


Figure B shows the element that controls the other element

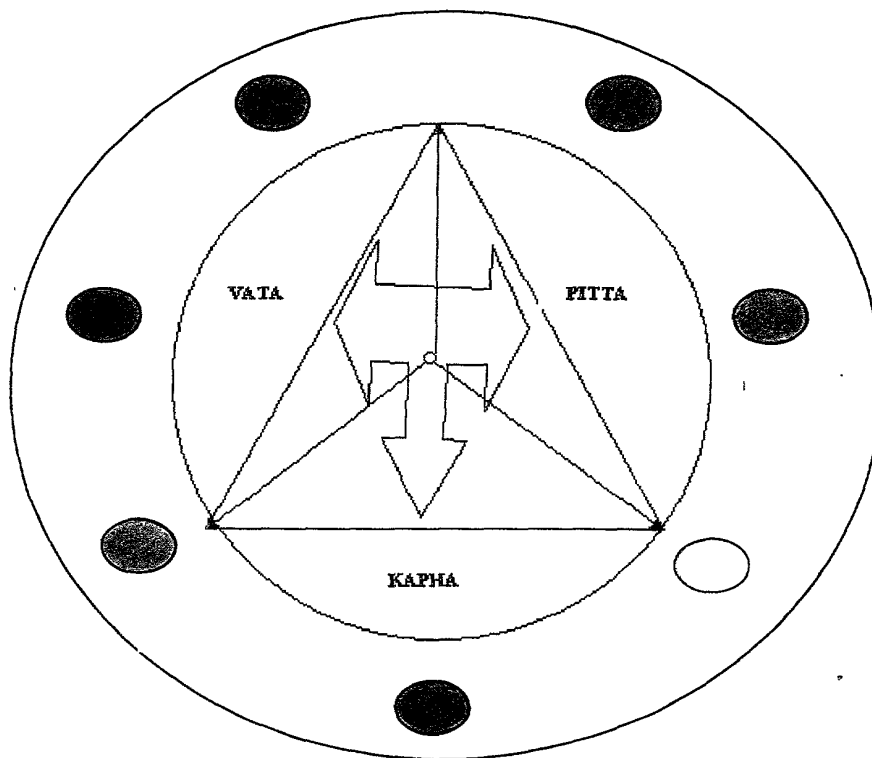
Any imbalance (excess or deficiency) of one element leads to disturbance in other elements and becomes the root cause of a disease. The health of human body is achieved by managing and controlling the above elements in Chinese medicine. Most of the world traditional philosophies follow the same concept.

Figure 1

Figure 2

Relation of colors with humors

VATA	KAPHA	PITTA



94

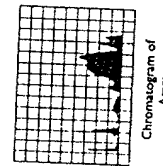
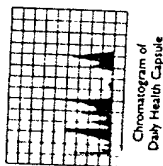
## THE SHILAJIT EXAMPLE



Figure 4  
The Chromatographic fingerprint

Herbal formulations with the same ingredients may differ substantially in safety and efficacy depending on the quality and processing of the herbs. Careful selection of herbs, stringent quality control and Chromatographic fingerprinting ensure that the final product delivers the same benefits that have been proven in clinical studies.

Each **Ayurvedic CONCEPTS** formula represents the results of subjecting ancient Ayurvedic knowledge to rigorous modern research and scientific analysis. These products are manufactured according to the rigid standards of modern pharmaceutical technology.



Store in a cool, dry place.  
Keep out of the reach of children.

Research expertise by:  
**THE HIMALAYA DRUG CO.**  
MAKALI BANGALORE 562 133 (INDIA)  
Enriching Ayurveda Through Research Since 1930

ID-OC-DH 11-X0741

# Ayurvedic CONCEPTS



## Daily Health Capsules

Antistressor • Rejuvenator

Amla • Licorice

• Natural Zinc

60 CAPSULES

Each capsule contains:

Pdfrs.	
Amalaki	90 mg
Garijara	90 mg
Yashad bhasma	1.94 mg
Exts.	
Amra	120 mg
Yashti-madhu	25 mg
Lavanga	25 mg
Draksha	10.50 mg
Oil	
Godhuma	17.56 mg

Dosage:

2 capsules twice a day.

Natural products provide gradual but long-lasting results. Allow several weeks for full benefits.

Mfg. Lic. No.: ALIS-83

M.R.P.: Rs.60.00

(Incl. of all taxes)

Exp.: 3 yrs. from date of Mfg

B.No.: 90702

Mfd.: July 99

Made in India by:

**THE HIMALAYA DRUG CO.**  
MAKALI BANGALORE 562 133 (INDIA)

Relieves stress, mental fatigue, RLS  
a healthy equilibrium.

Stress has become part of life today.

Continued stress disrupts the immune system

leading to chronic fatigue, hypertension,

Pollution and chemicals cause oxidative

damage to the body by the release of free

radicals, thereby disturbing normal body functions.

Daily Health capsules are non-sedating

rich in anti-oxidant vitamins in the form

of Amra and Garijara (vit.A), Amalaki

(Amla) (vit.C), and Lavanga (Clove),

Draksha (Grapes) and Godhuma

(Wheatgum) oil (vit.E). Yashti-madhu

(Licorice) and Yashad bhasma (Natu

Zinc) are excellent immune-stimulants

that bolster the body's defence mechanism

keeping you fit and healthy.

Clinical trials on the product have

proved it to be beneficial in the

treatment of stress of various origins.

Ayurvedic Proprietary Medicine.

Completely safe. Non-toxic.

**NON-SEDATING.**

The chromatographic fingerprint does not give any clear information about the polarity and conjugative properties of the constituents.



# CHROMATOGRAMS OF A COMMERCIAL TURMERIC POWDER AT AT DIFFERENT WAVELENGTHS (The existing method)

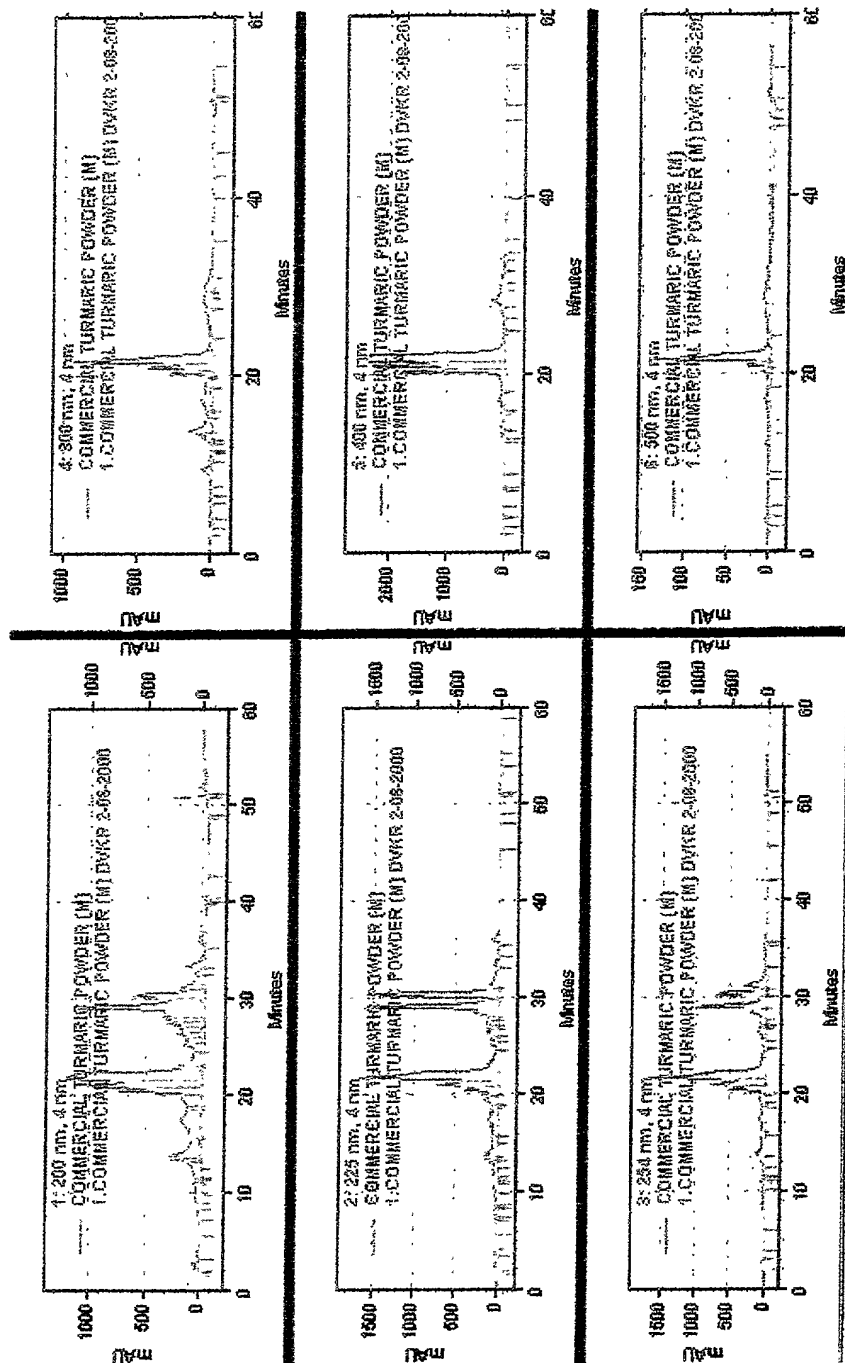


Figure 5

# CHROMATOGRAMS OF A FURAZOLIDINE MEDICINE AT DIFFERENT WAVELENGTHS

(The existing method)

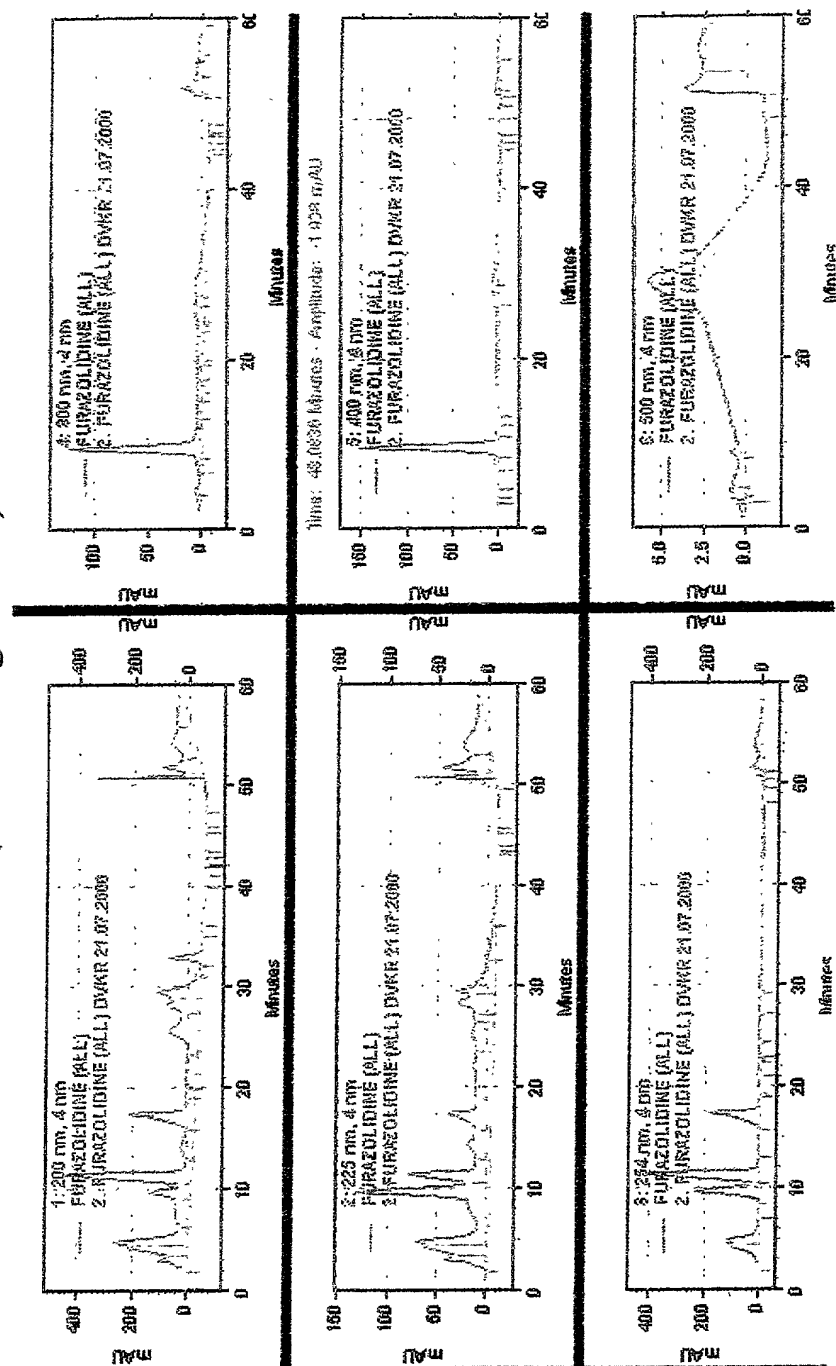


Figure 6

# CHROMATOGRAMS OF A HERBAL FORMULATION

## KRIMIKUTARA RAS

### AT DIFFERENT WAVELENGTHS

(The existing method)

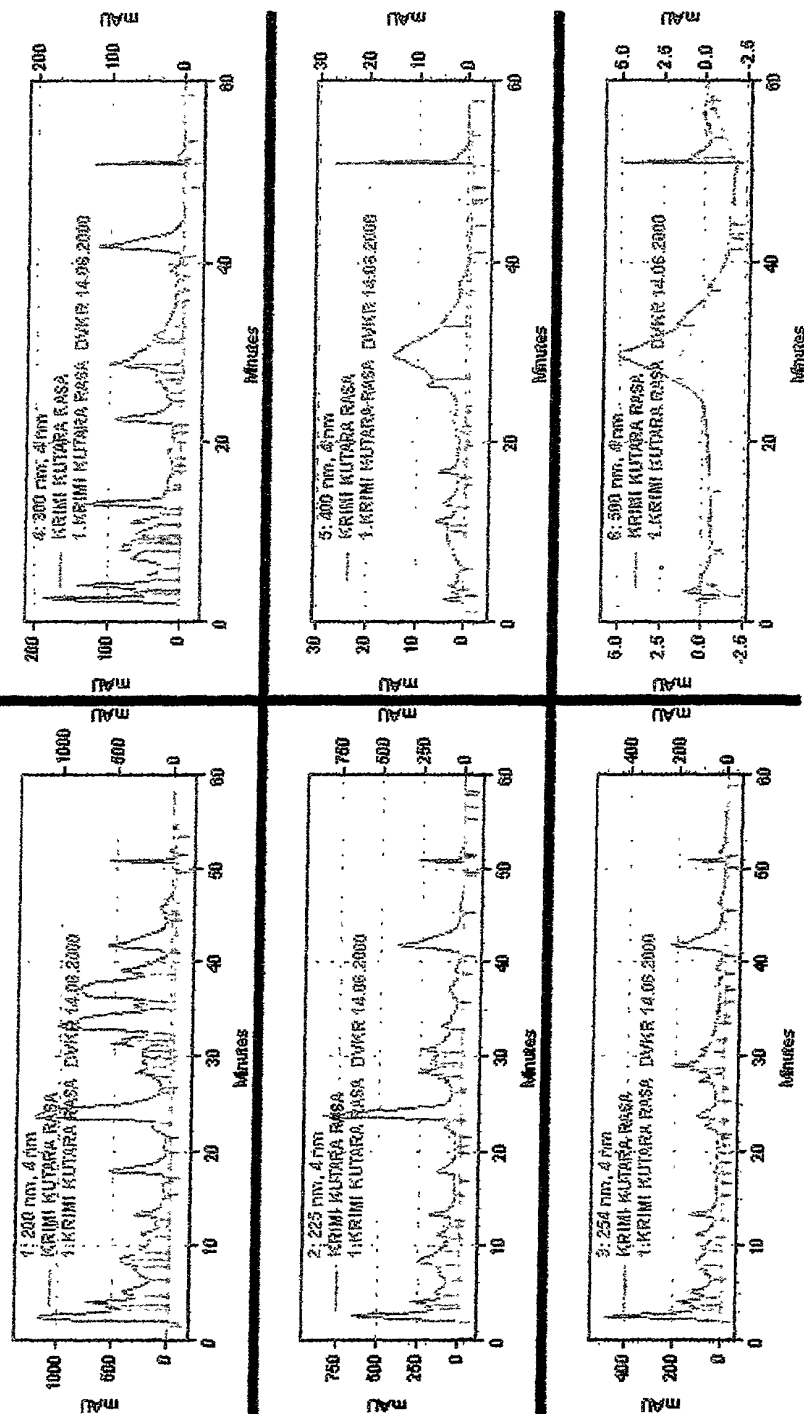


Figure 7

CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

# CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

## SHILAJIT (POOR BY EFFICACY)

### AT DIFFERENT WAVELENGTHS

(The existing method)

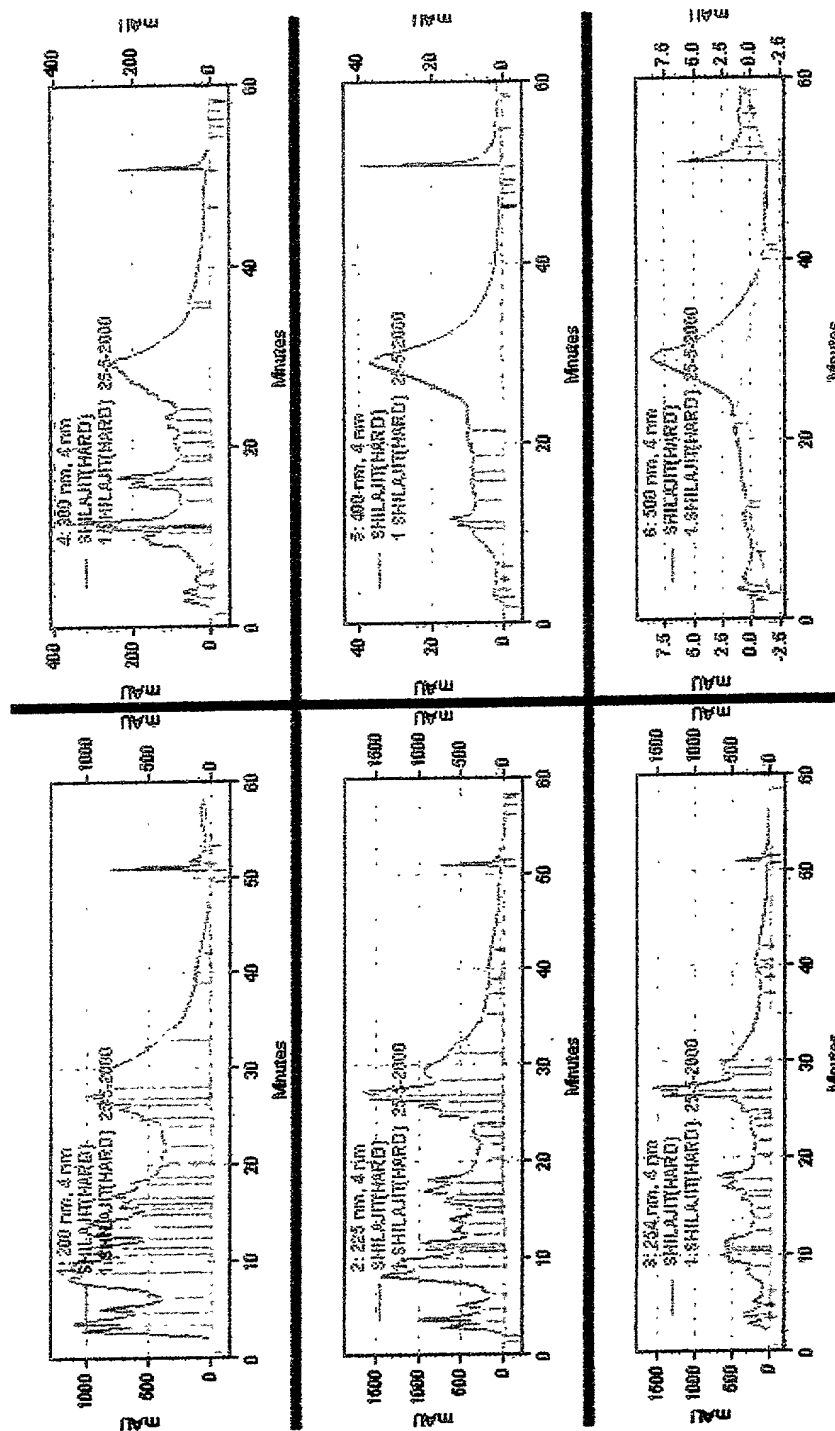


Figure 9

# CHROMATOGRAMS OF A HERBAL FORMULATION

## SURYAVARTI AT DIFFERENT WAVELENGTHS

(The existing method)

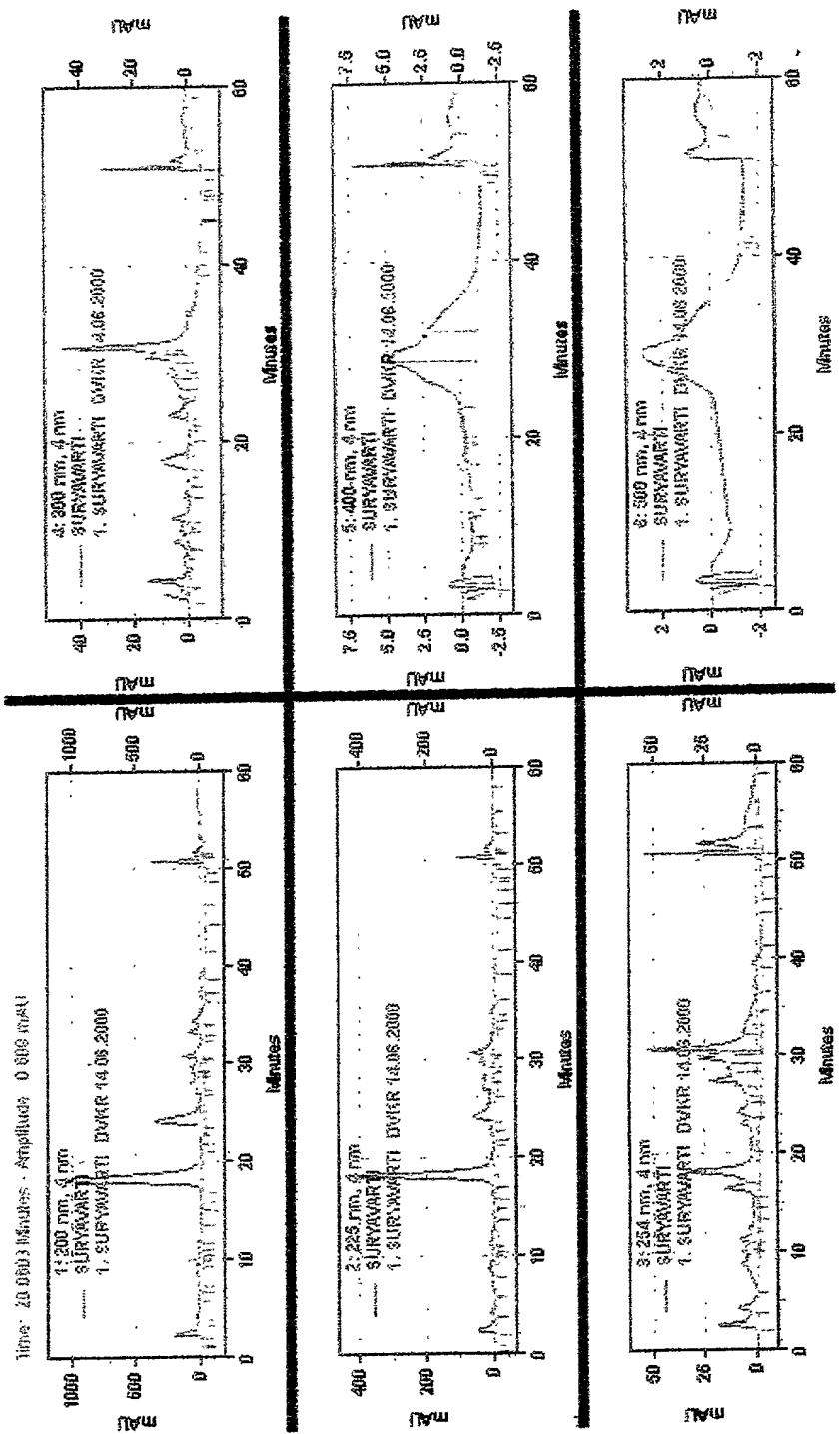


Figure 10

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— 22 —



— 22 —

# CHROMATOGRAMS OF A HERBAL FORMULATION TRIKTU (A FORMULATION OF PIPALI, MARICHA AND SHUNTI)

AT DIFFERENT WAVELENGTHS

(The existing method)

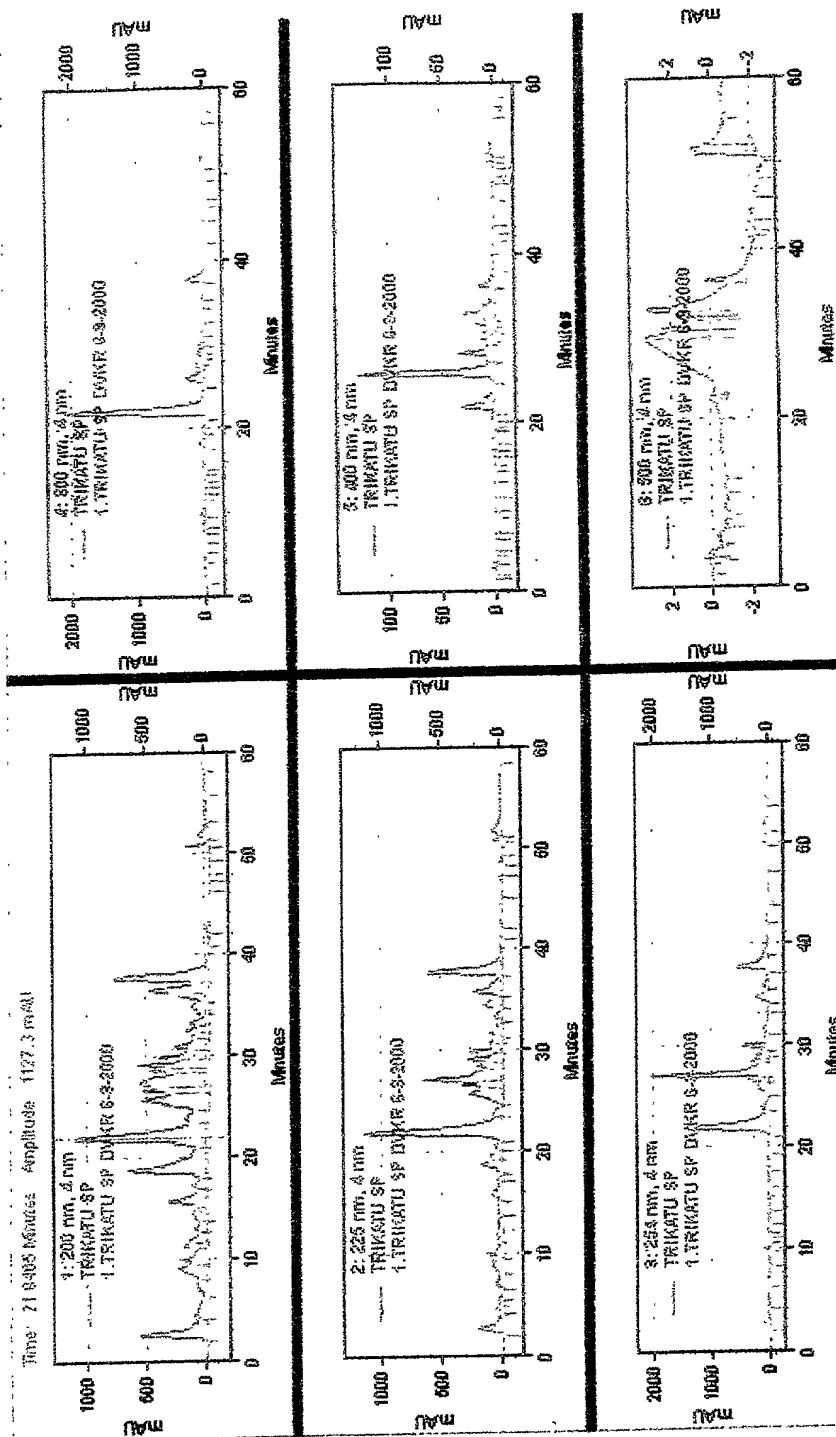
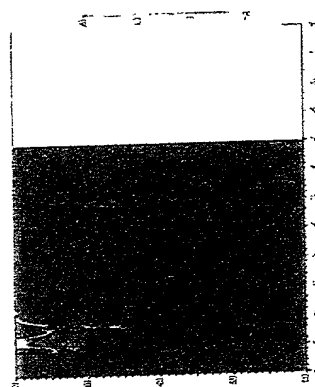


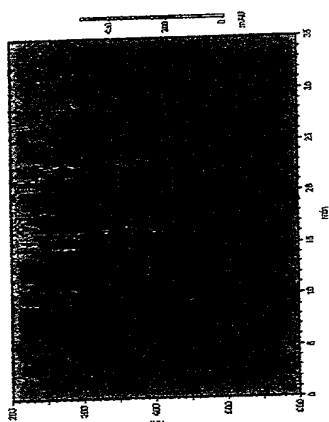
Figure 12



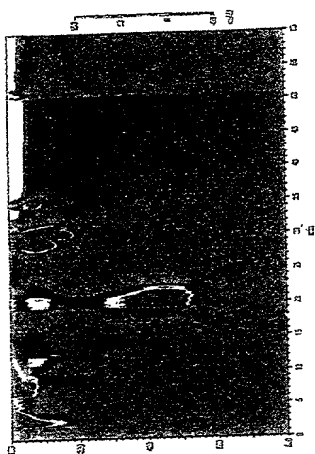
# THE YELLOW MEDICINES



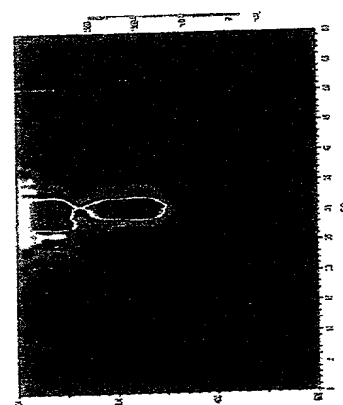
**COSCIUM  
FENESTRATUM**



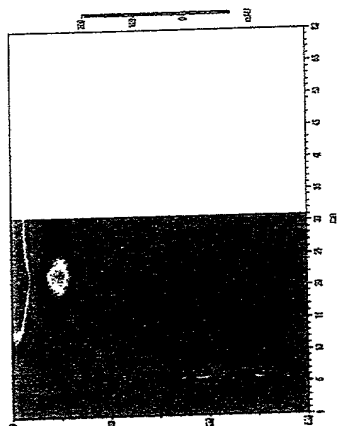
**ZINZIBER OFFICINALE  
(PROCESED)**



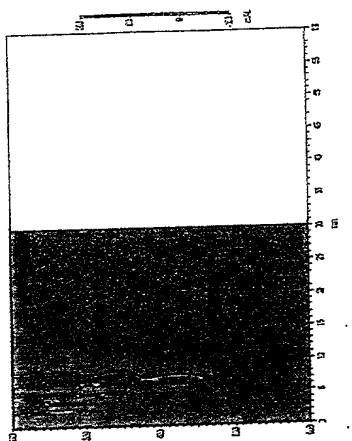
**CURCUMA LONGA**



**CUMMIPHORA MUKUL**



**BERBERIN  
(FLUKA STANDARD)**



**BERBERIS ARISTATA**

Figure 13

THE FINGERPRINTS OF CONTRAVERSIAL DRUGS (SANDIGHA DRAVYAS) SHOWS A CLEAR DIFFERENCE IN APPEARANCE MAKING THE IDENTIFICATION MORE EASY.

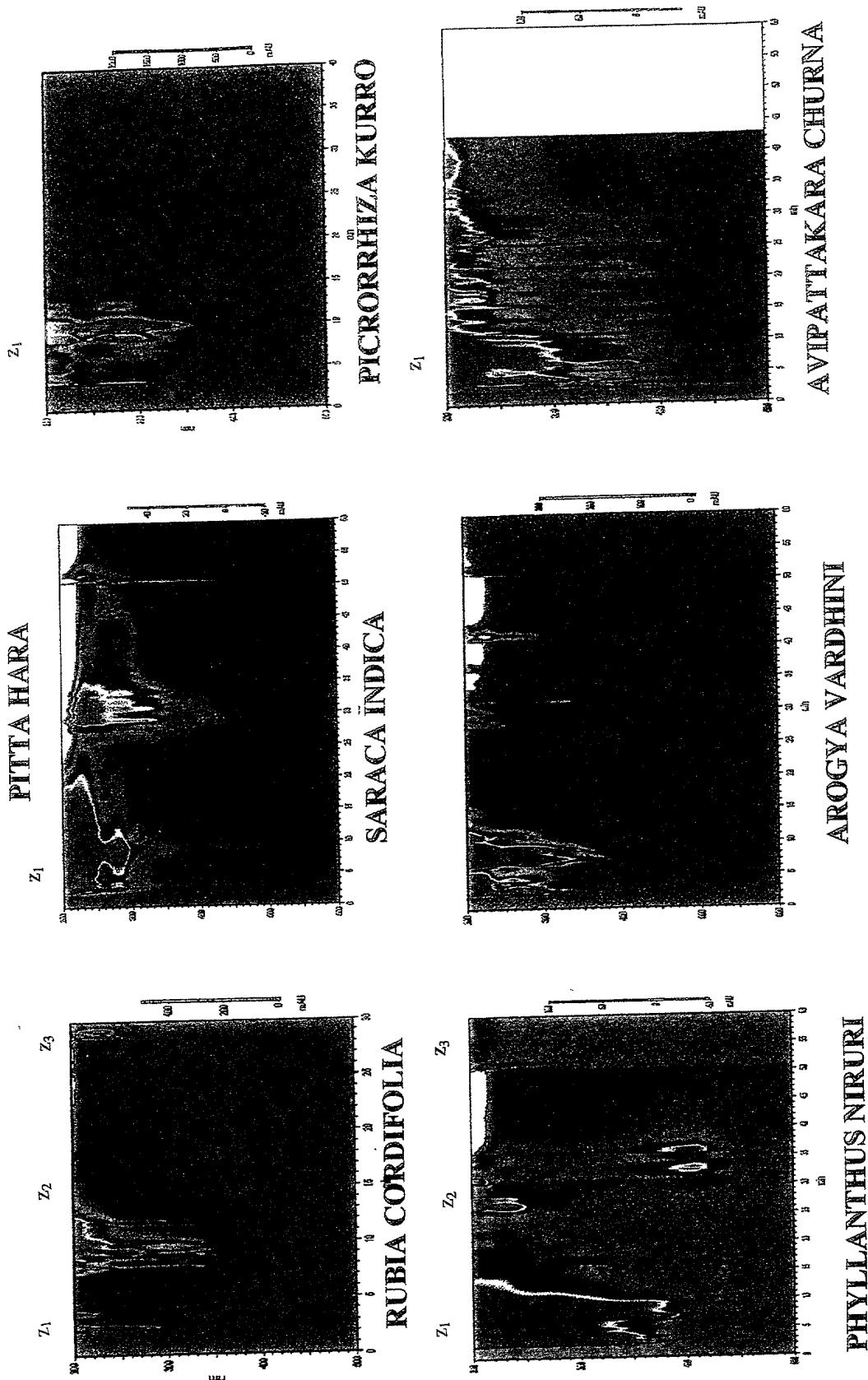


Figure 14

THE PRESENCE OF CONSTITUENTS IN ZONE-I INDICATES THE SAID EFFICACY OF THE MEDICINES



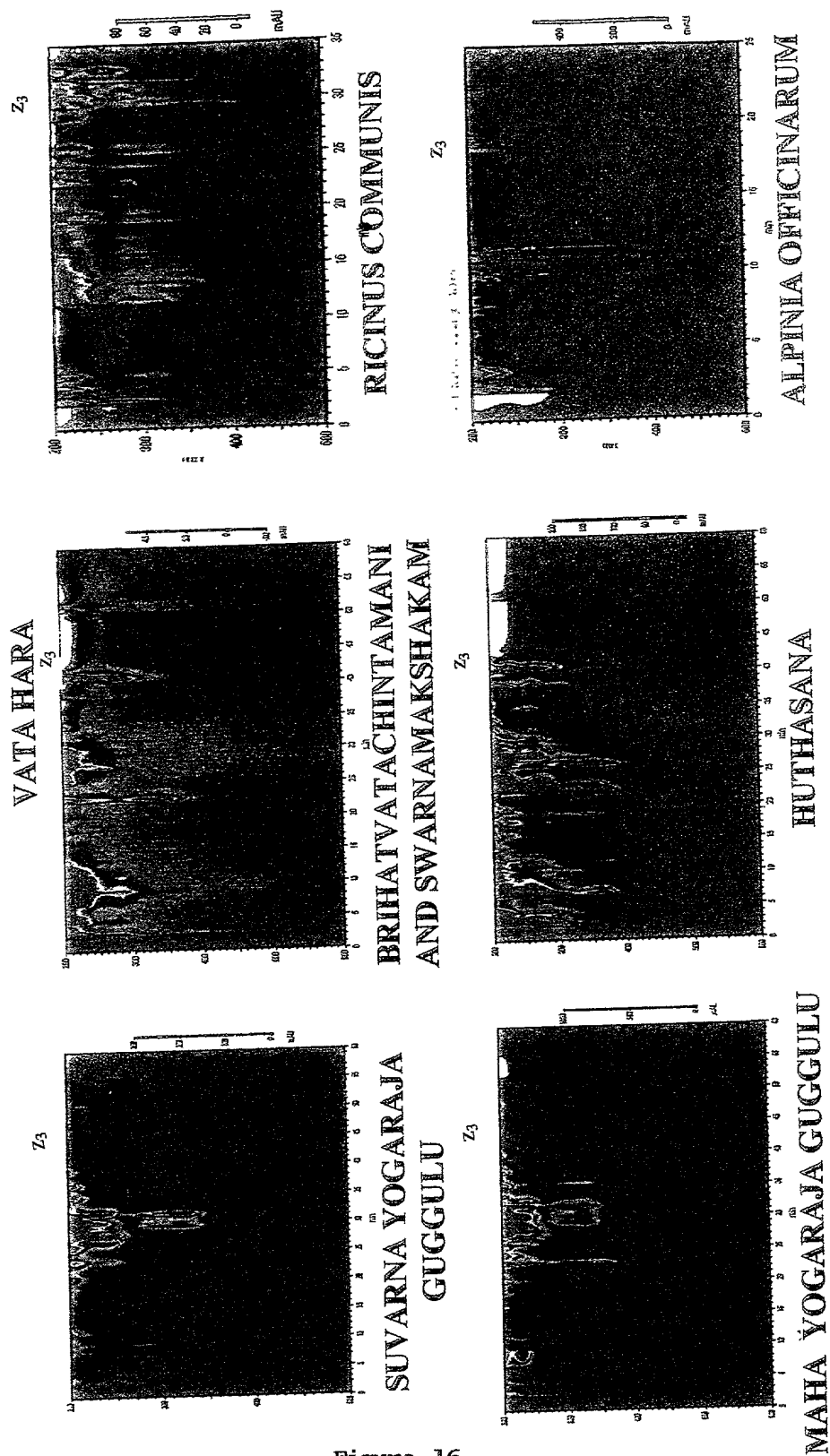
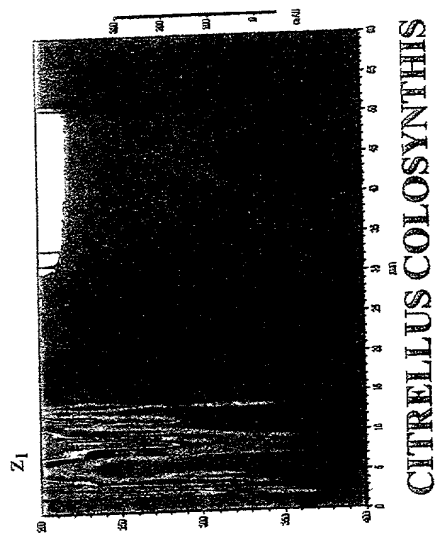
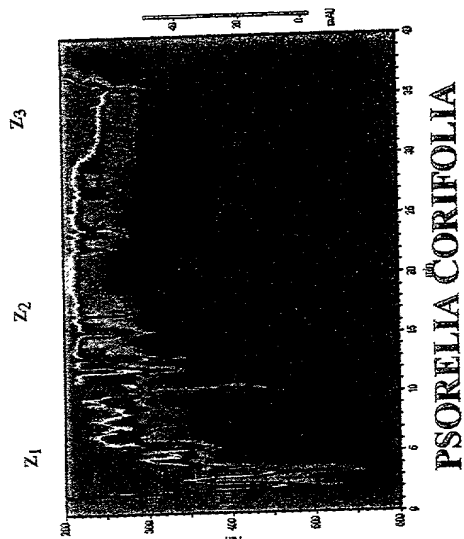
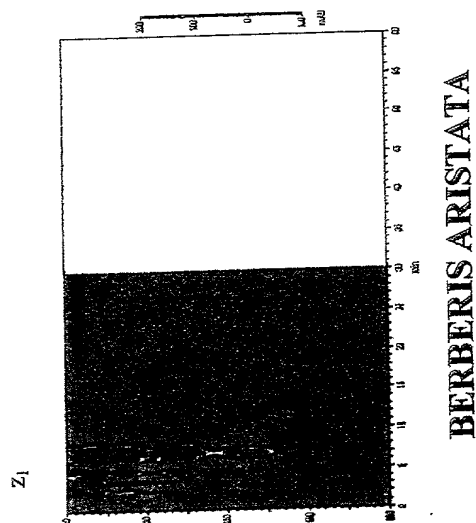
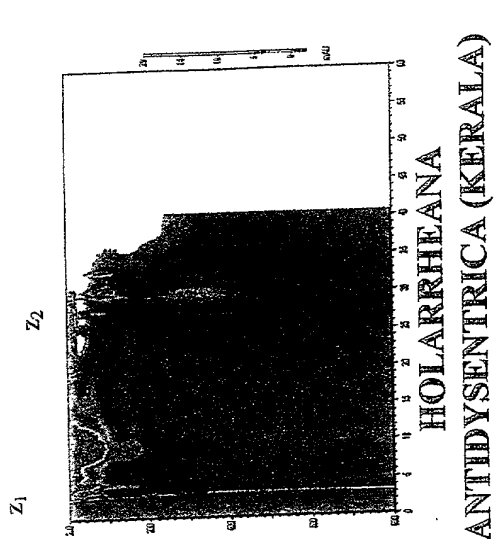
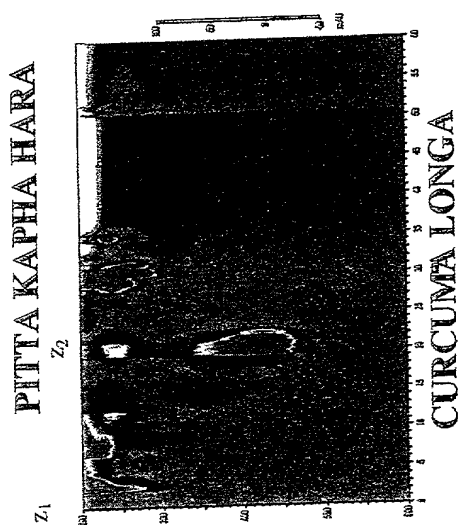
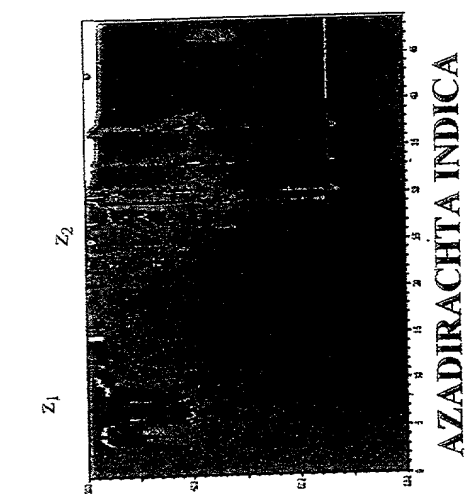


Figure 16

THE PRESENCE OF CONSTITUENTS ZONE-3 INDICATES THE SAID EFFICACY OF THE MEDICINES

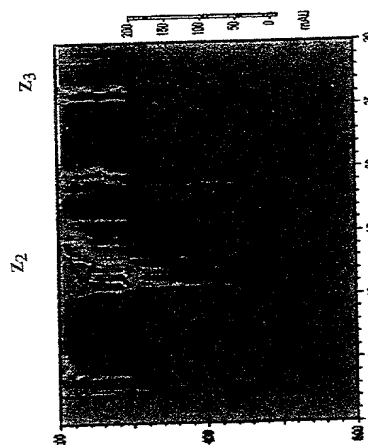
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THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-2 INDICATES THE SAID EFFICACY OF THE MEDICINES

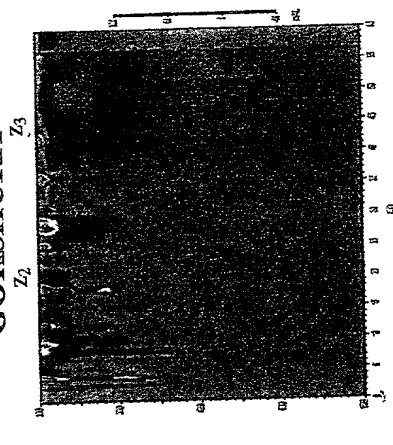
Figure 17

# KAPHA VATA HARA



# TRIBULUS TERRESTRIS

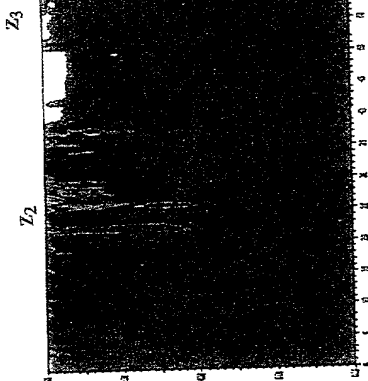
## GOKSHURA



# PIPER BEETLE

## LEAVES FROM COASTAL

## ANDHRA PRADESH



# TRIKATU SP

## TRIKATU GH



# PIPER BEETLE LEAVES

## FROM CULCUTTA

# MORINGA OLIFERA

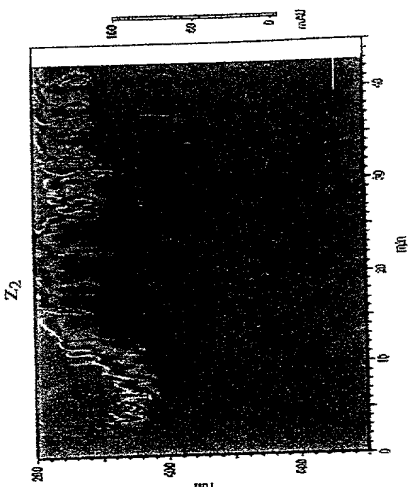


Figure 18

THE PRESENCE OF CONSTITUENTS IN ZONE-2 AND ZONE-3 INDICATES THE SAID EFFICACY OF THE MEDICINES

# PITTA VATAHARA

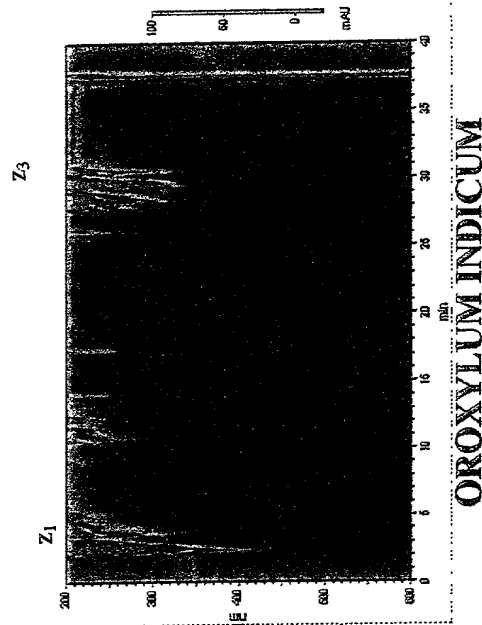
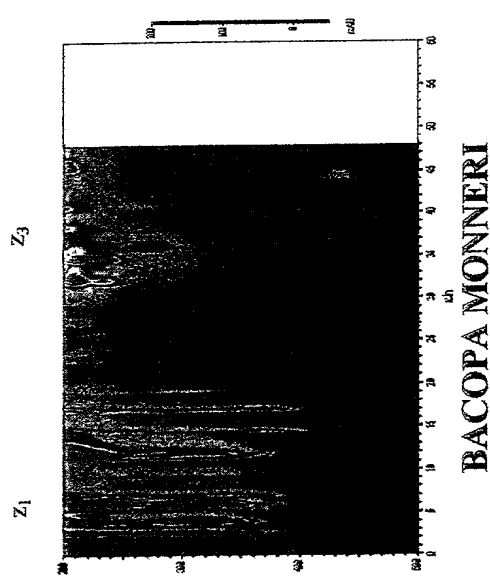
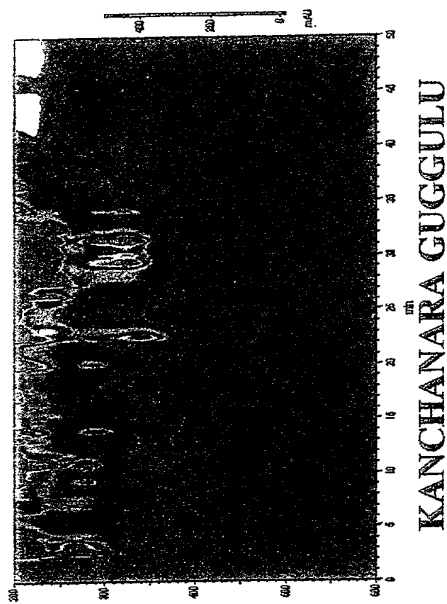
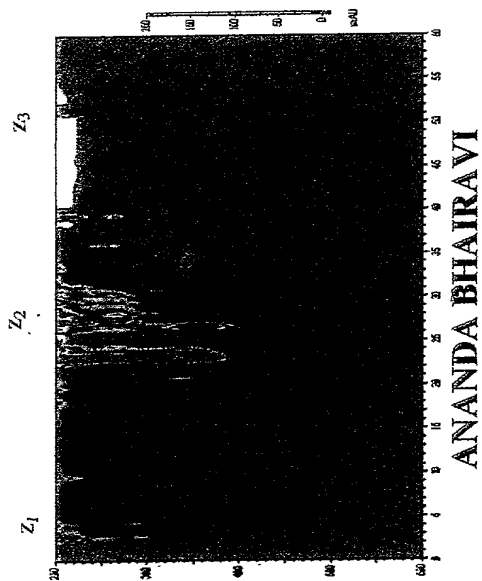


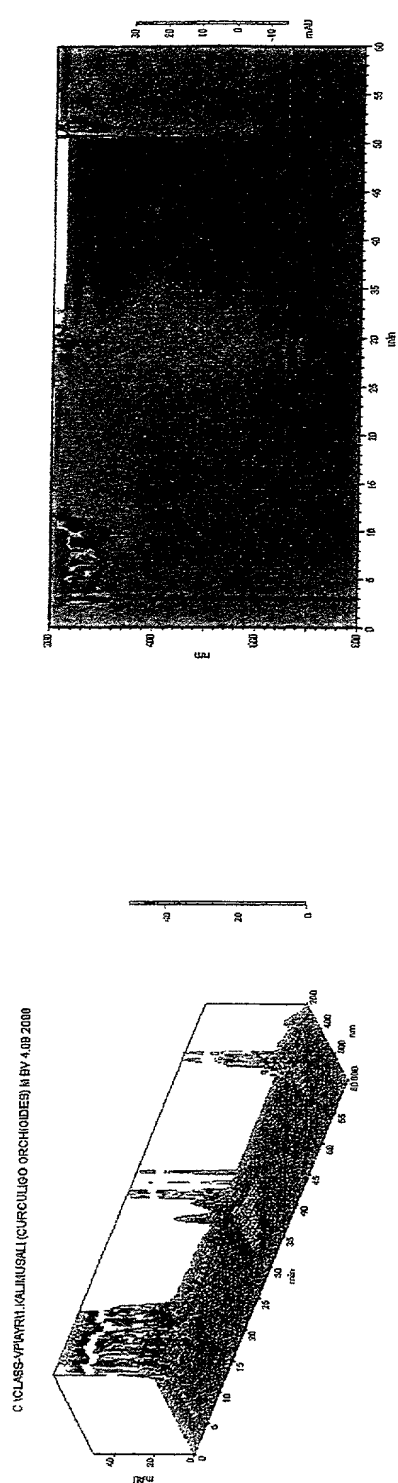
Figure 19

THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-3 INDICATES THE SAID EFFICACY OF THE MEDICINES

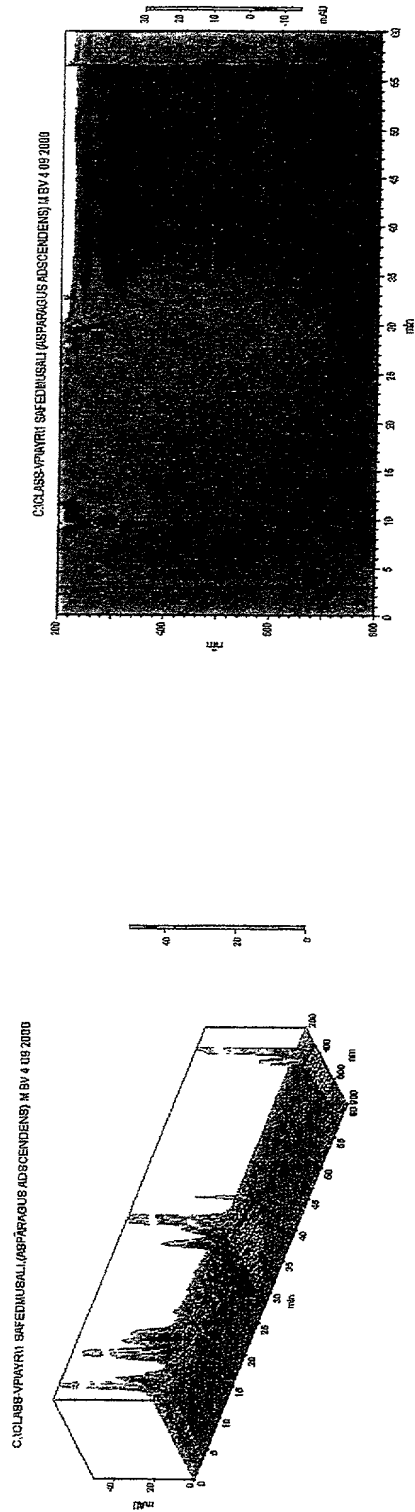




**Figure: MUSALI - A TRIDOSHA HARA MEDICINE**



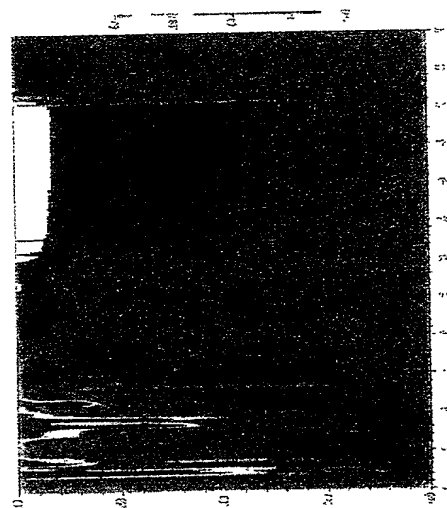
**FINGER PRINTS OF CURCULIGO ORCHOIDIS (KALIMUSALI)**



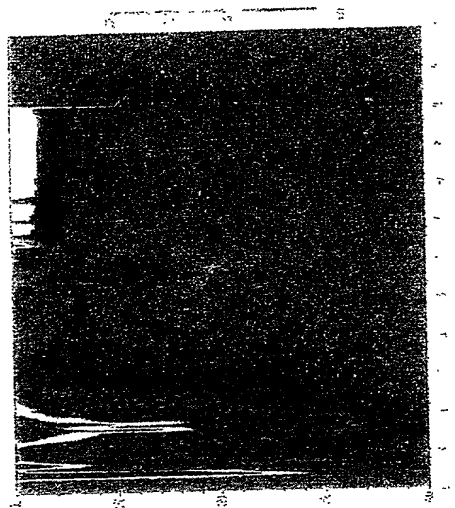
**FINGER PRINT OF ASPARAGUS ADSCENDENS (SAFED MUSALI)**

CITRULLUS COLOSYNTHIS  
(HOMOEOPATHIC MEDICINE)

Very bitter peak of difference



Light in bitterness absent



CITRULLUS COLOSYNTHIS

GOOD BY EFFICACY

CITRULLUS COLOSYNTHIS

POOR BY EFFICACY

THE LACK OF SOME CONSTITUENTS IN THE FINGER PRINT SHOWS THE USE OF THIS METHOD FOR THE STANDARDIZATION OF EXTRACTION PROCESS OF HOMOEOPATHIC TINCTURES FROM PLANTS

This supports the claim of taste identification used for therapeutic standardization.

Figure 22

## INFLUENCE OF ECOLOGICAL FACTORS

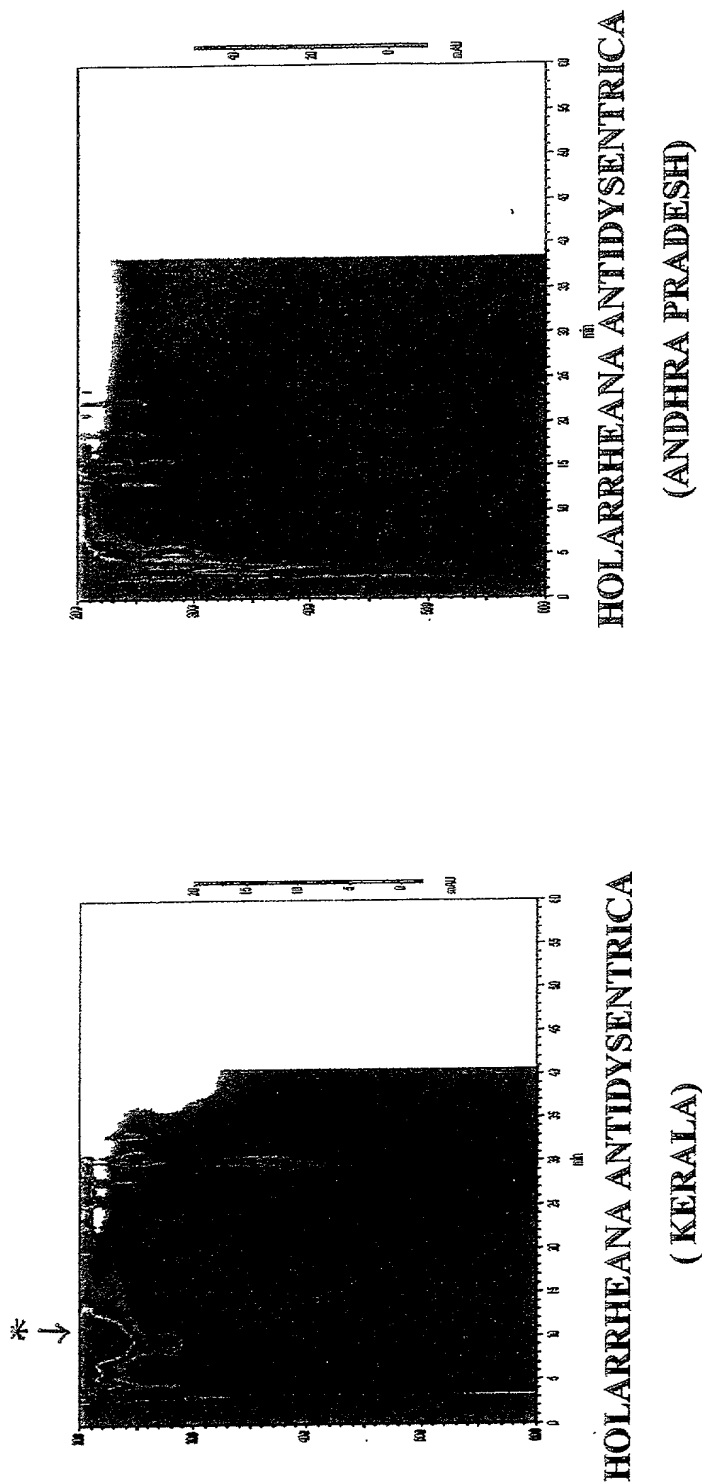


Figure 23

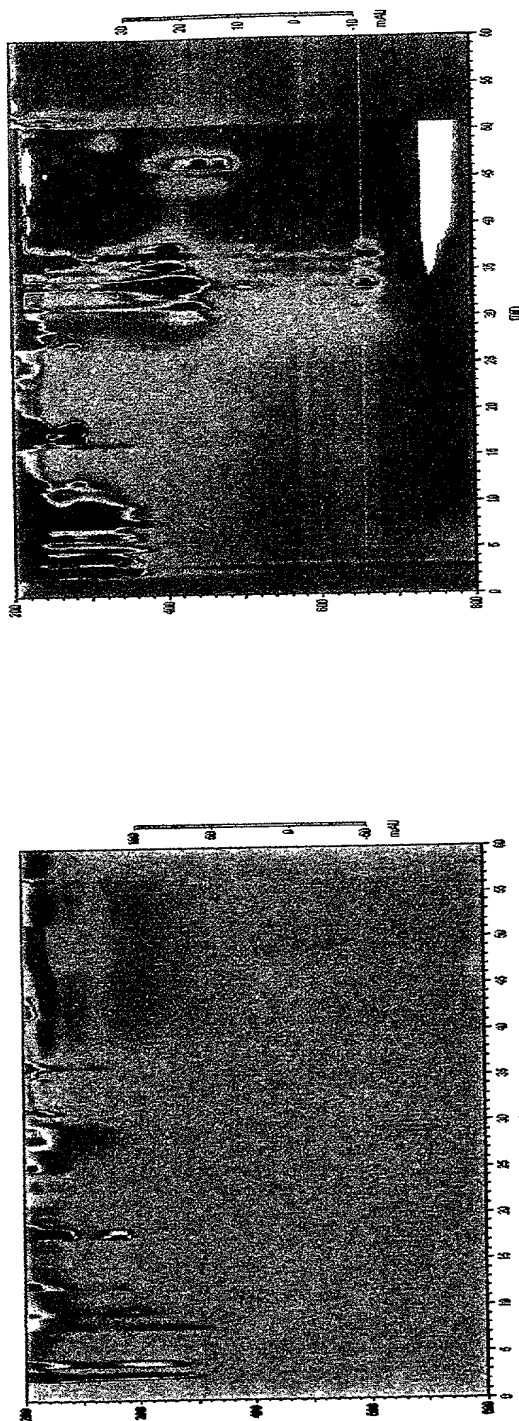
THE FINGER PRINTS SHOWS THE INFLUENCE OF ECOLOGICAL FACTORS ON THE CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF

### DIFFERENT TROPICAL ZONES OF THE COUNTRY.

\* This constituent is basic in nature because the basic or alkaline amines elutes stretched or elongated. Acid compounds elute fast like a sharp peak.

**Figure 24**

## PIPER BEETLE EXAMPLE



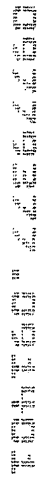
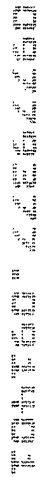
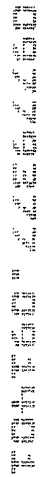
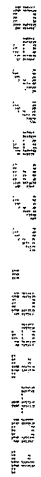
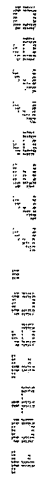
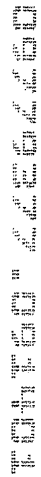
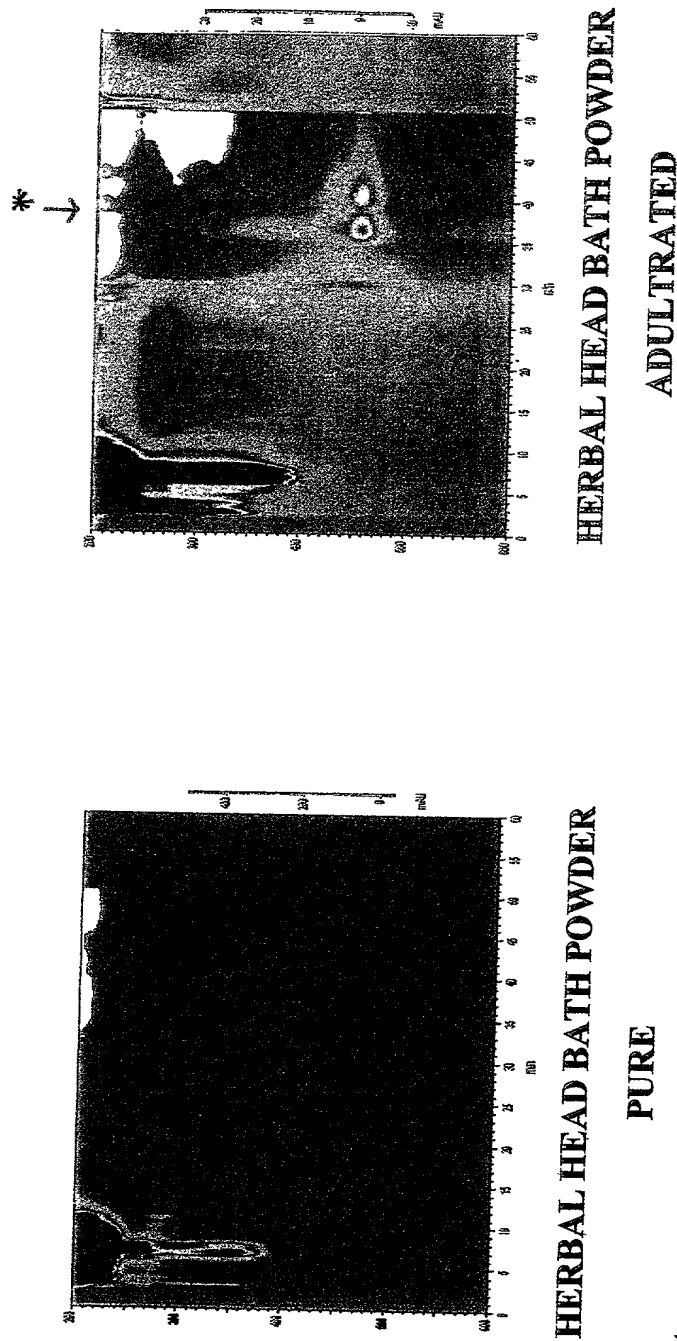
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Figure 26

## HERBAL HEAD BATH POWDERS



THE ABOVE FINGER PRINTS SHOW THE ADULTERATION OF DETERGENTS IN THE SAID  
HERBAL COSMETIC PRODUCT. THUS FINGER PRINTING HELPS TO MONITOR THE  
ADULTERATIONS IN VARIOUS COMMERCIAL HERBAL PRODUCTS

- \* → Constituents at 35-40 minutes are highly basic and soapy in nature . The pure detergent sample are eluting at the same time.

Figure 1 shows the results of the regression analysis. The dependent variable is the number of days of absence from work due to illness. The independent variables are the age, sex, and education of the respondent, the number of children in the household, the number of hours worked per week, the number of days of absence from work due to illness in the previous year, and the number of days of absence from work due to illness in the previous year squared. The results show that the number of days of absence from work due to illness increases with age, sex, and education. The number of children in the household and the number of hours worked per week also have a positive effect on the number of days of absence from work due to illness. The number of days of absence from work due to illness in the previous year has a strong positive effect on the number of days of absence from work due to illness in the current year. The number of days of absence from work due to illness in the previous year squared has a negative effect on the number of days of absence from work due to illness in the current year.

**TRIKATU - BRAND 2**

**THE SINGLE MEDICINES USED TO PREPARE THE FORMULATIONS.**

TURMERIC EXAMPLE

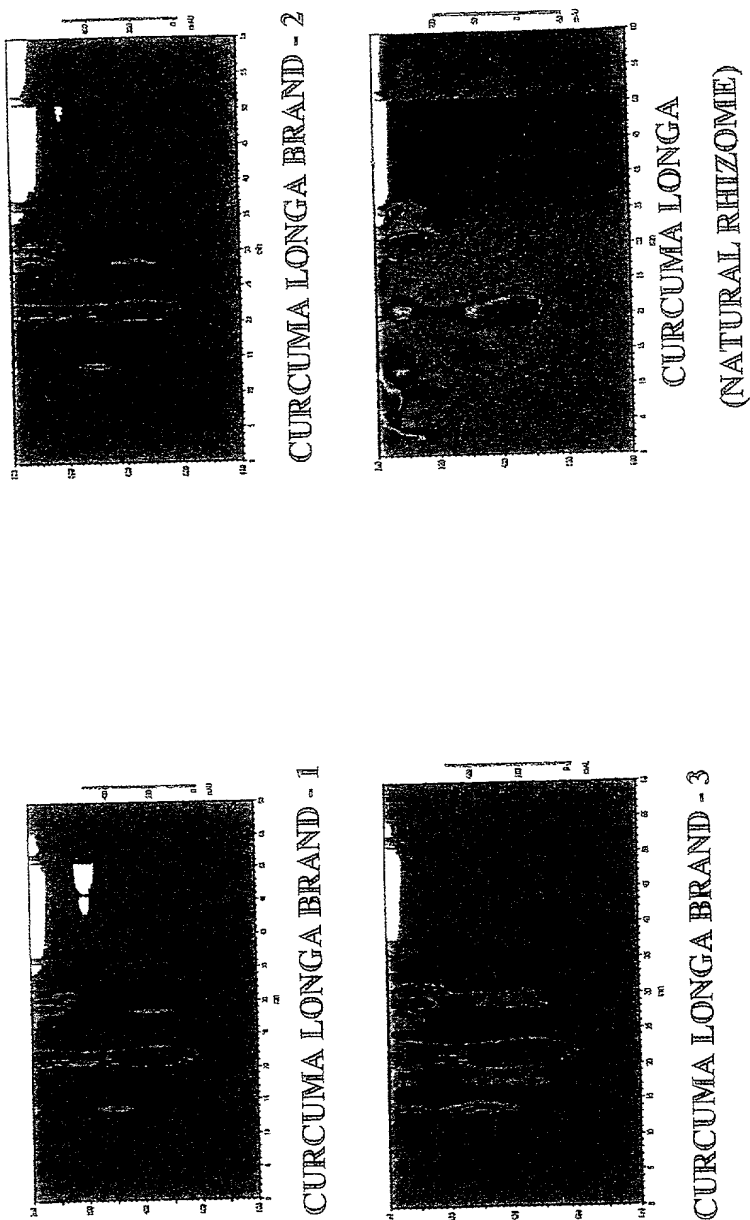


Figure 28

THE FINGER PRINTS OF THE SAME HERBAL PRODUCT IN DIFFERENT FORMS HELPS IN THE QUALITY CONTROL OF THE NATURAL SUBSTANCES. THE COMMON PEAKS AT 20 MIN IN NATURAL AND COMMERCIAL PRODUCTS INDICATES THE PRESENCE OF THE YELLOW COLORED MOLECULES IN ALL.



Figure 29

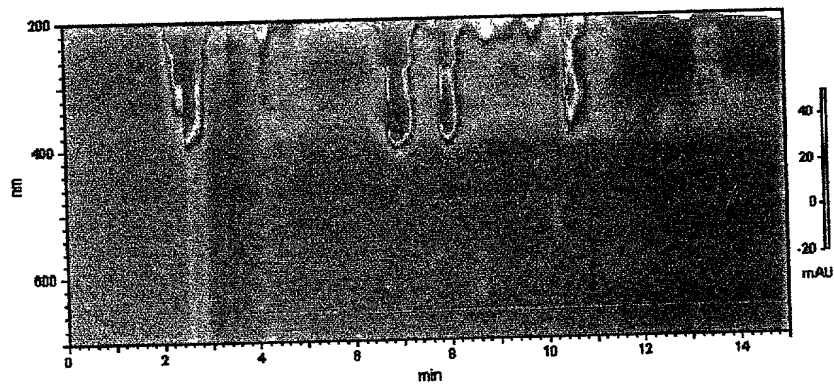
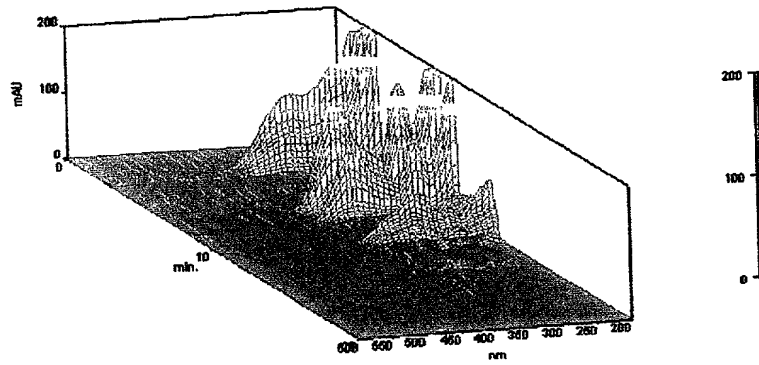


Figure 30

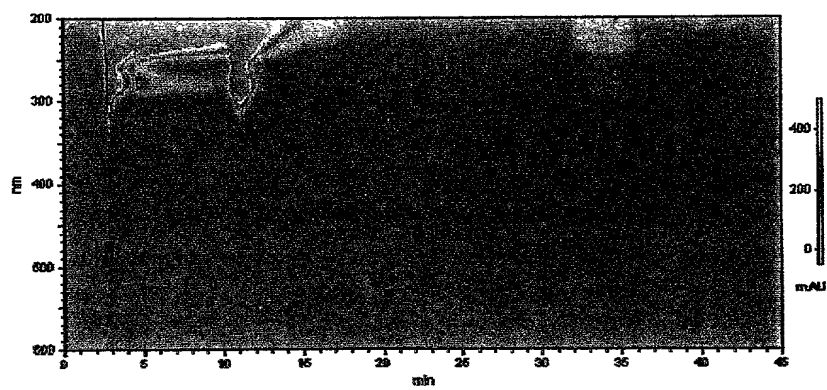
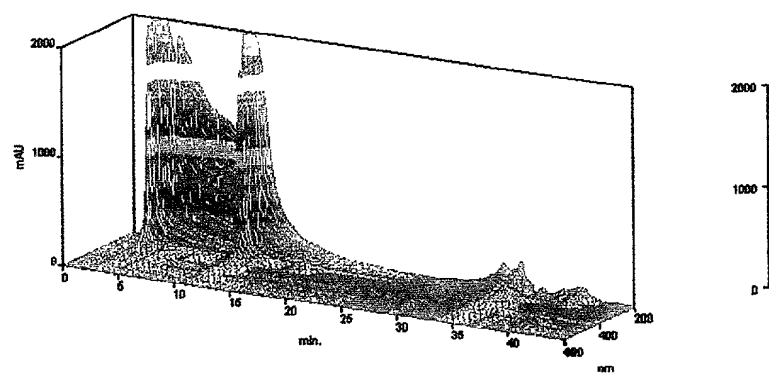
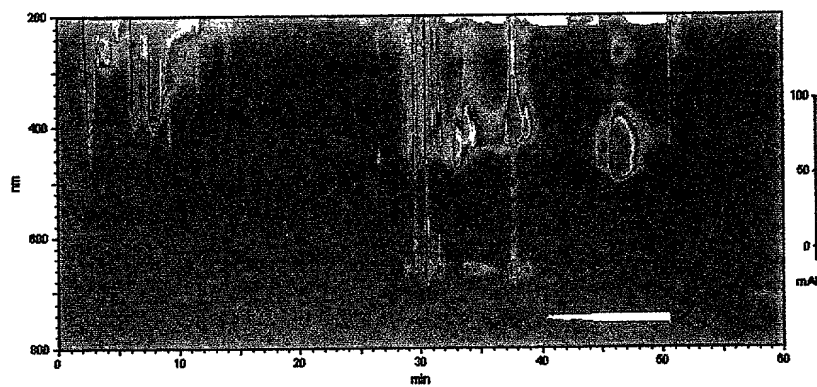
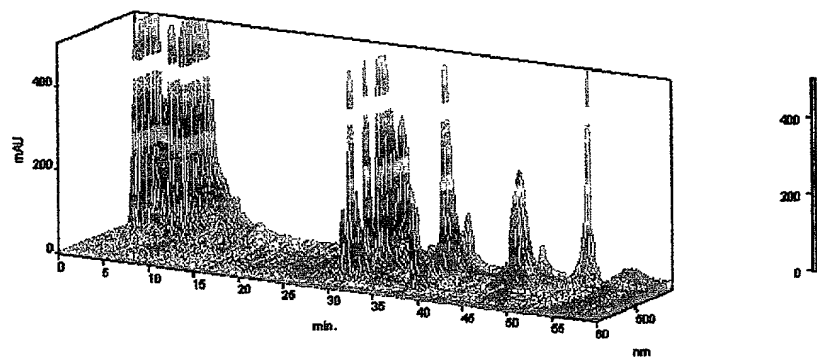
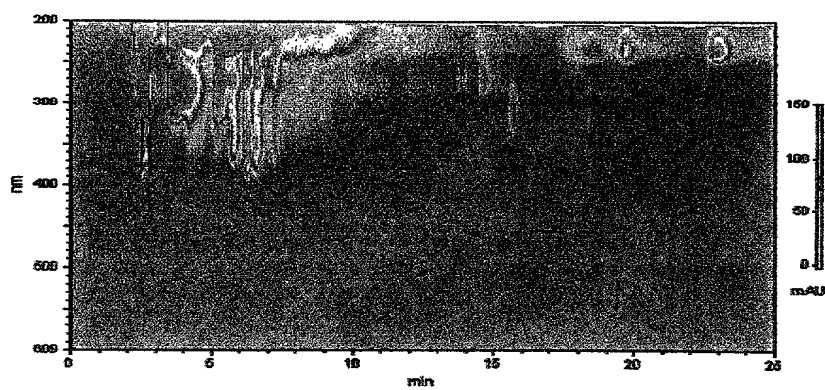
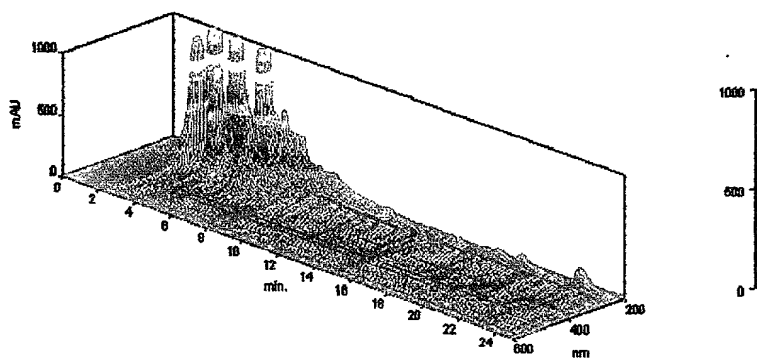


Figure 31



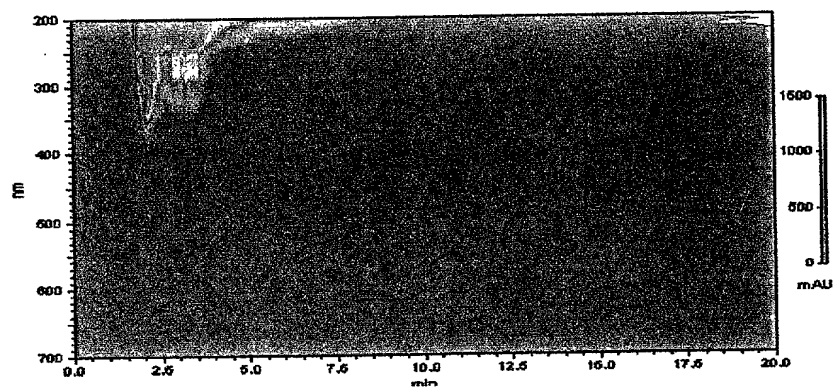
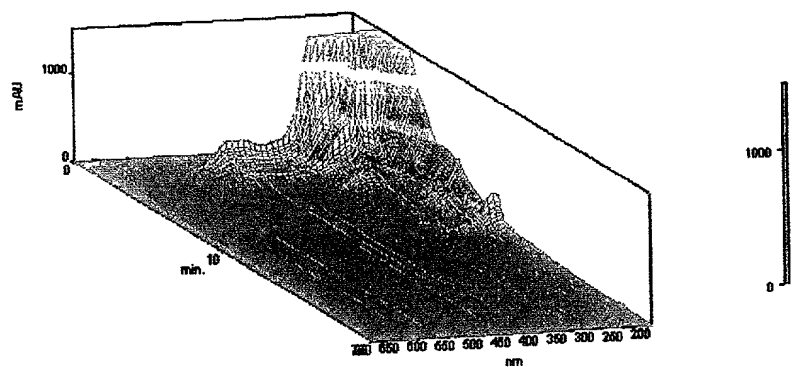
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Figure 32



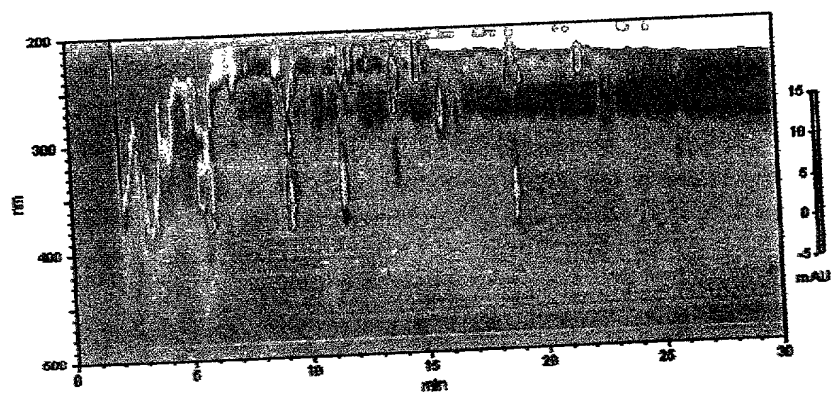
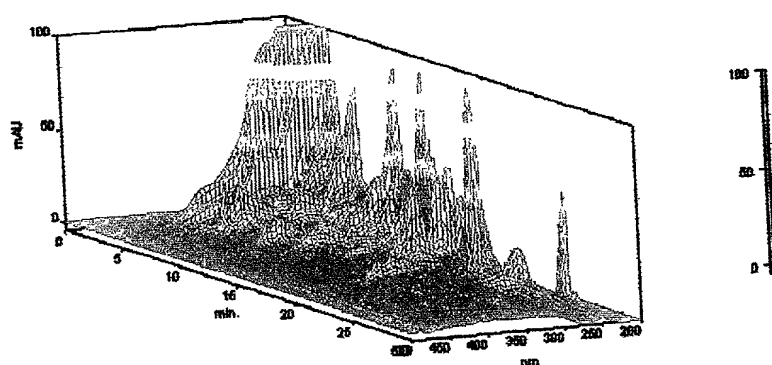
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101100 2207200

Figure 33



09770377 094474  
in 1000 1000 1000  
1000 1000 1000

Figure 34



00779377 094404  
100760 000000

Figure 35

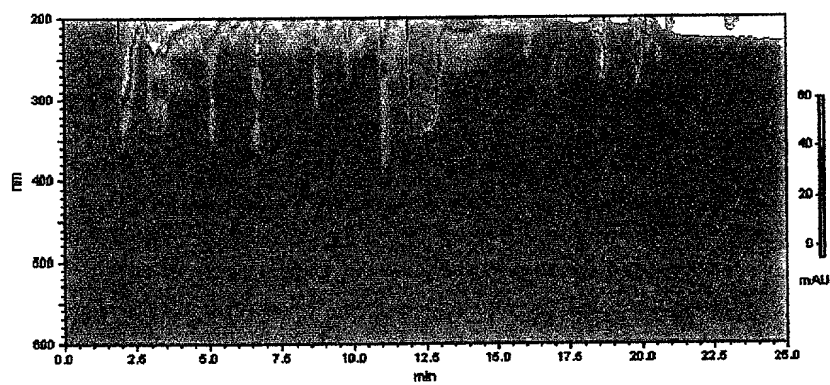
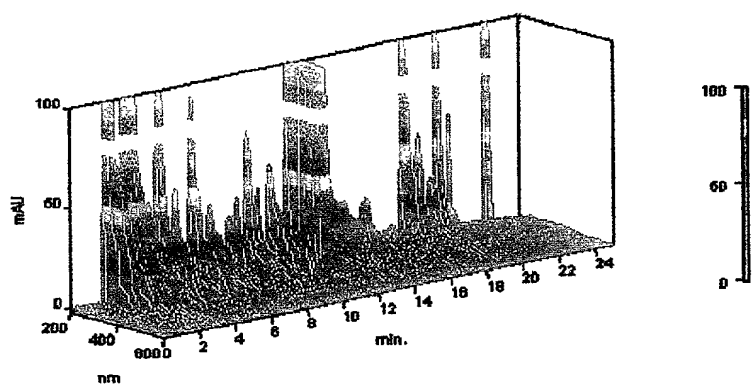


Figure 36

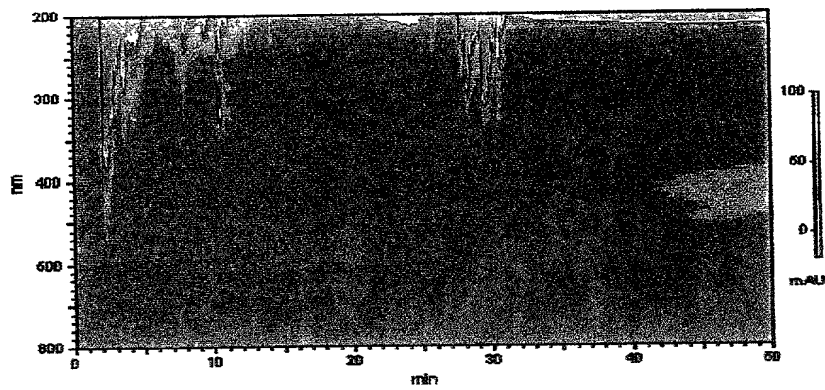
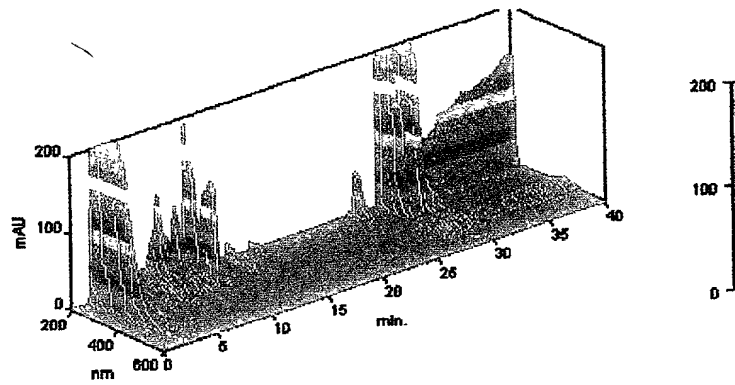




Figure 37

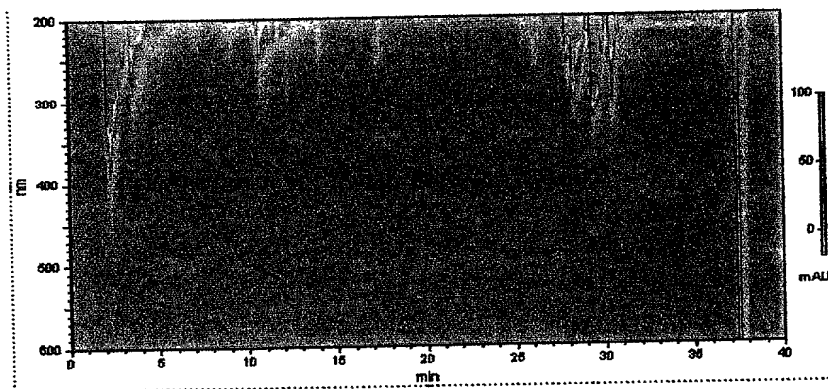
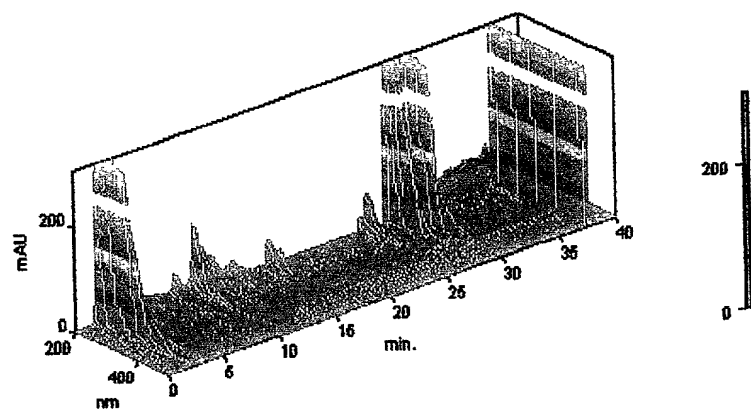
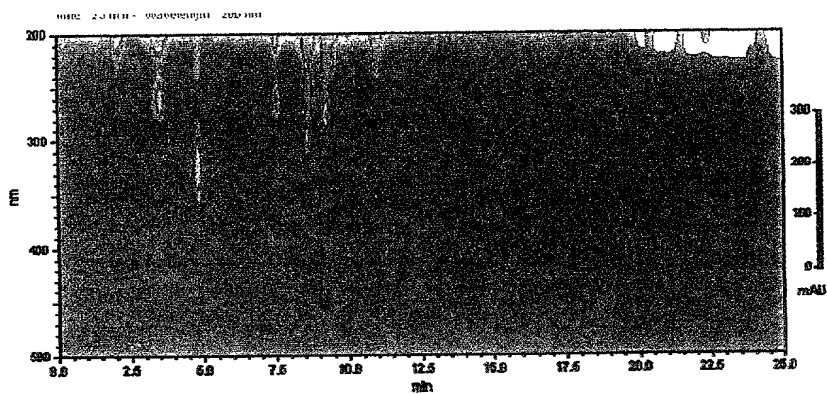
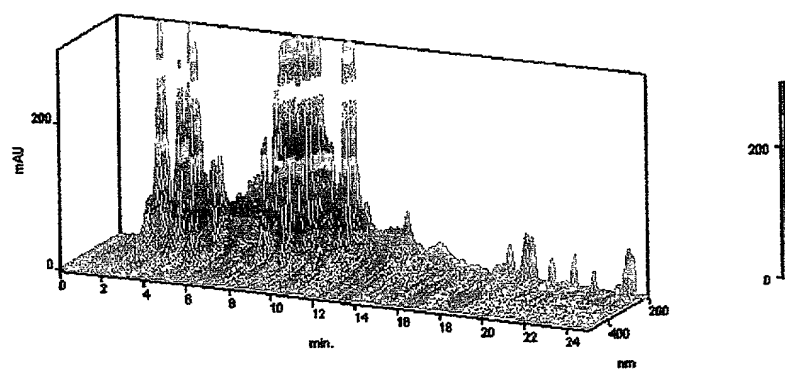


Figure 38



00770377 00444 407700 226260

Figure 39

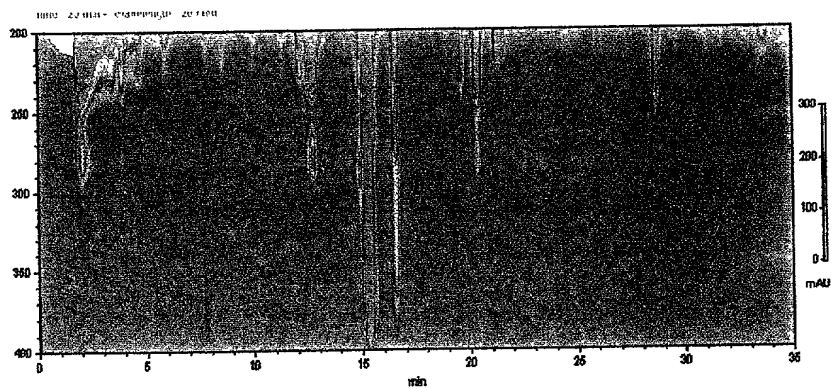
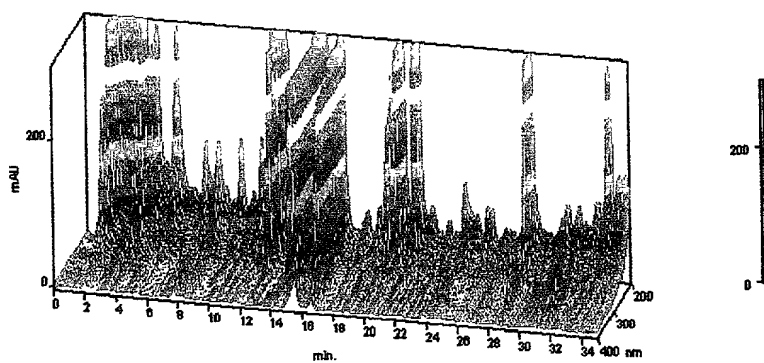
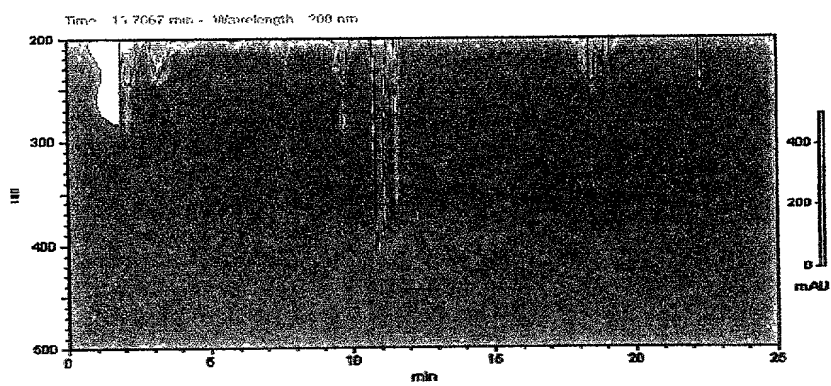
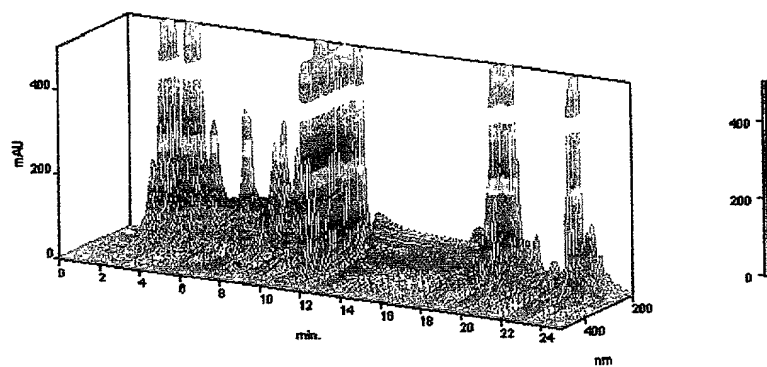


Figure 40



1. **Содержание:** 1. Введение. 2. Описание системы. 3. Требования к системе. 4. Структура системы. 5. Описание компонентов. 6. Описание процессов. 7. Описание данных. 8. Описание интерфейсов. 9. Описание тестирования. 10. Заключение.

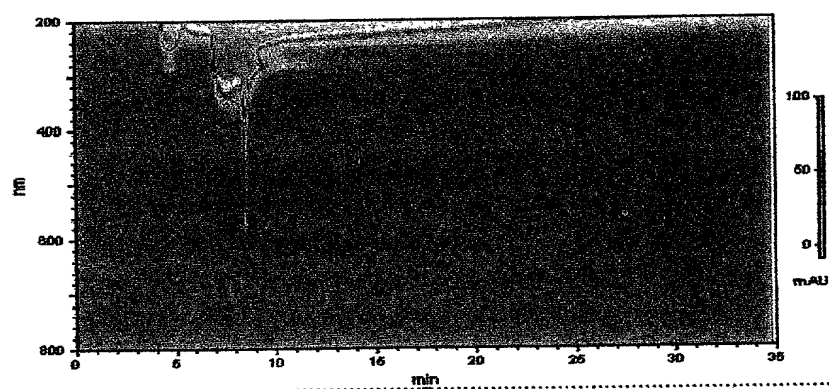
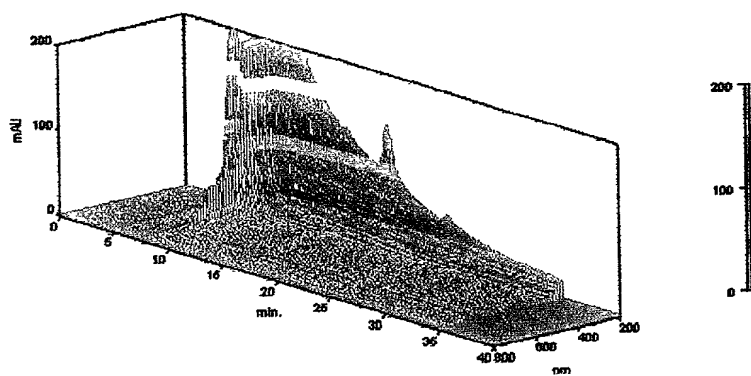


Figure 42

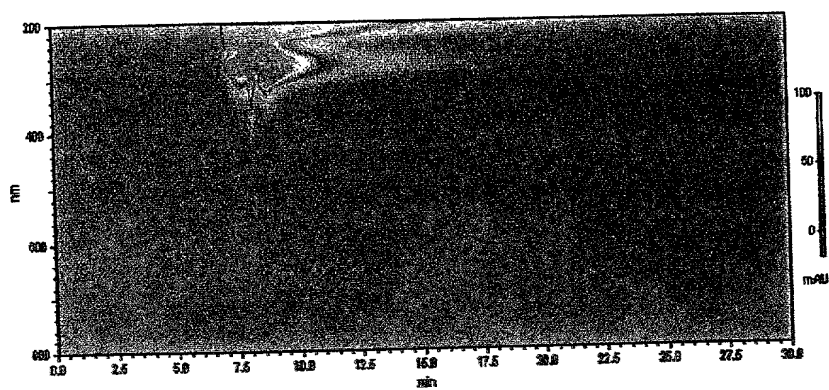
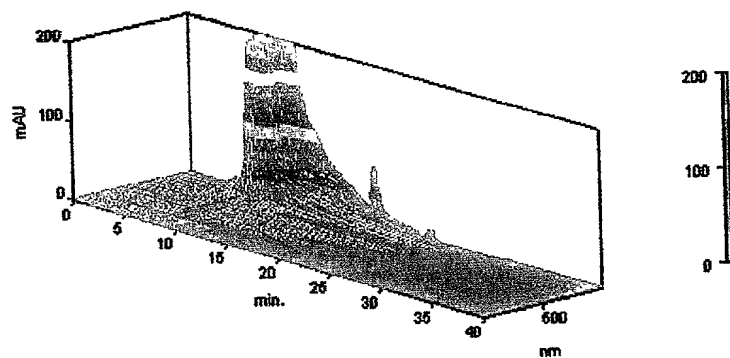
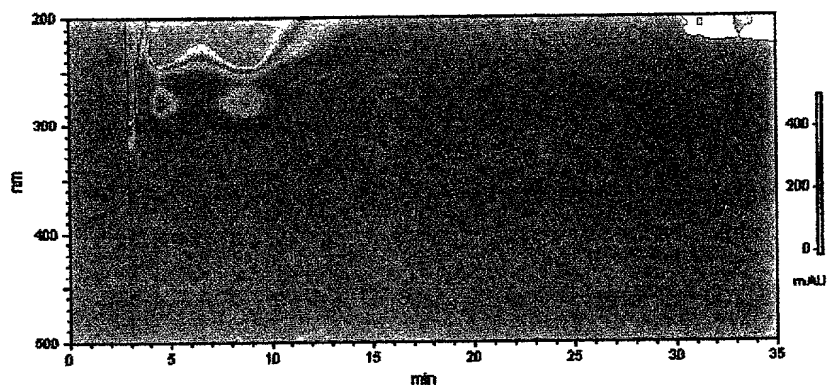
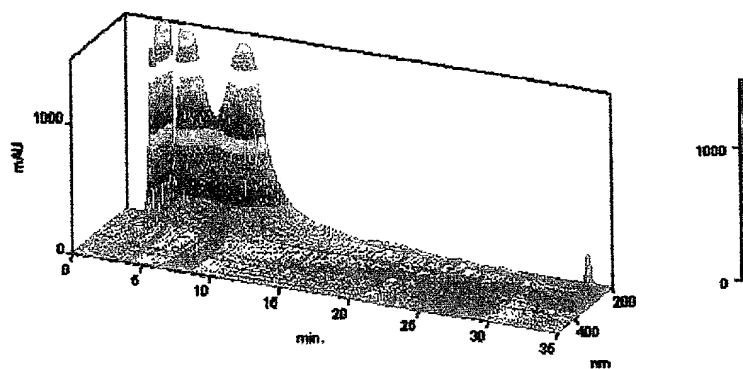


Figure 43



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P.01160 22E6/260

Figure 44

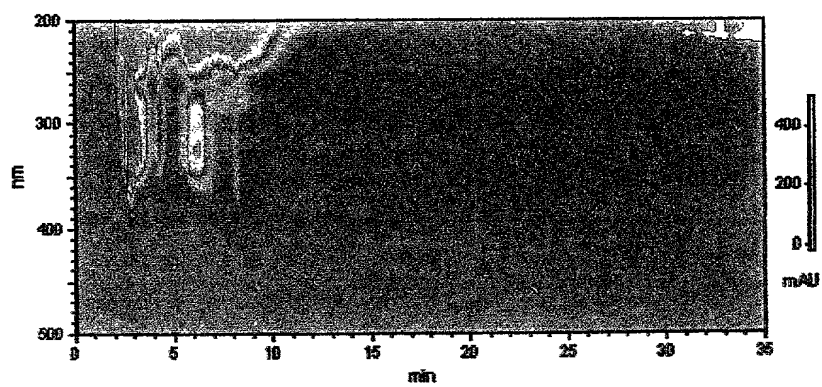
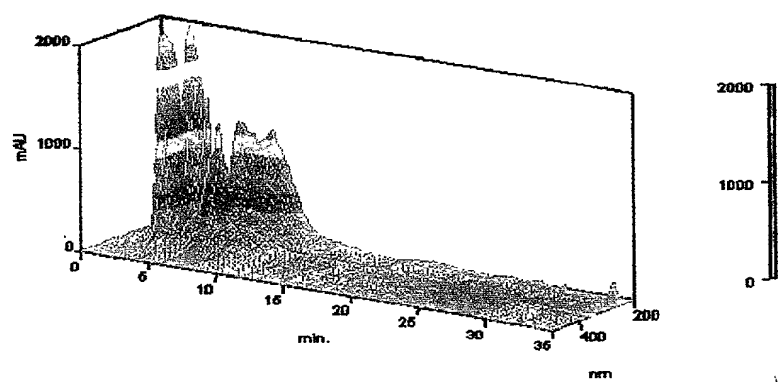
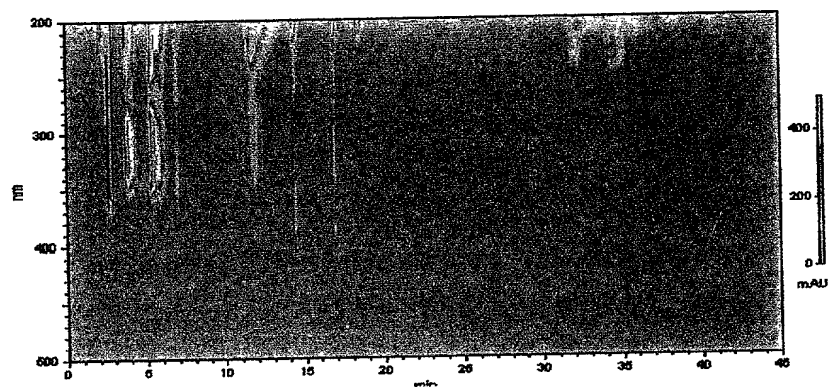
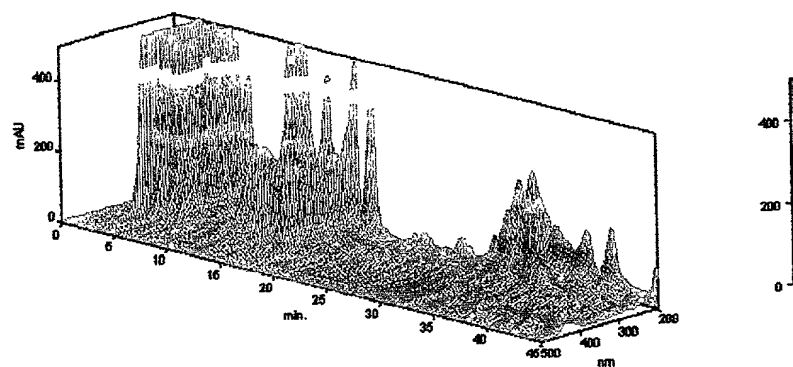




Figure 45



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107160 226260

Figure 46

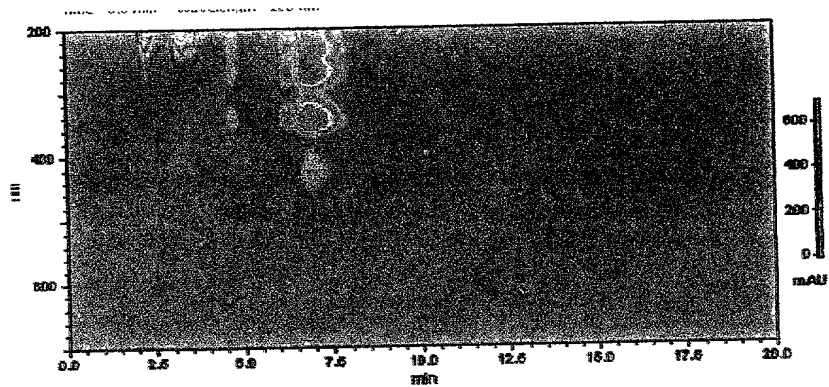
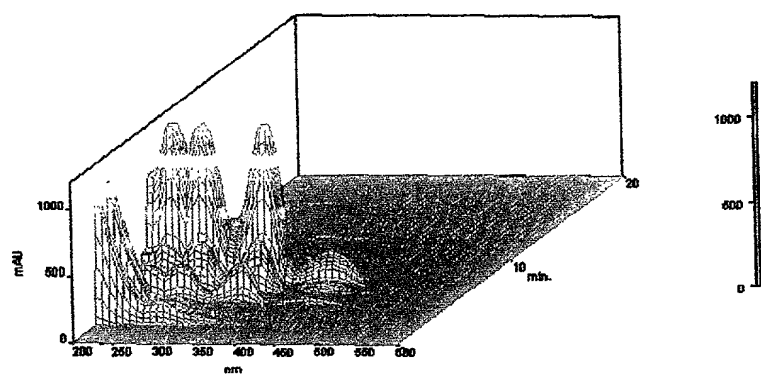
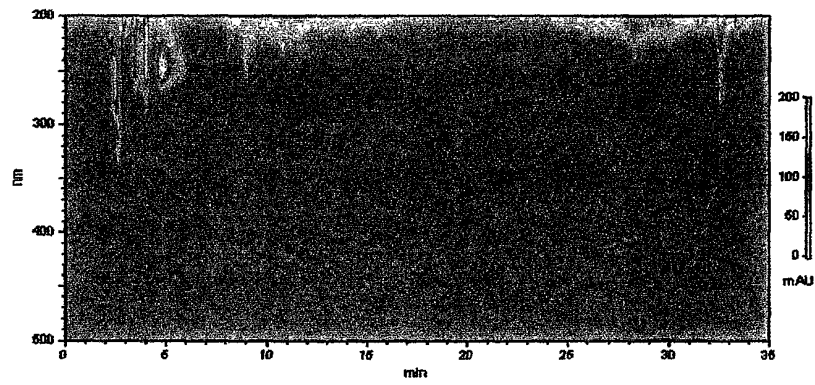
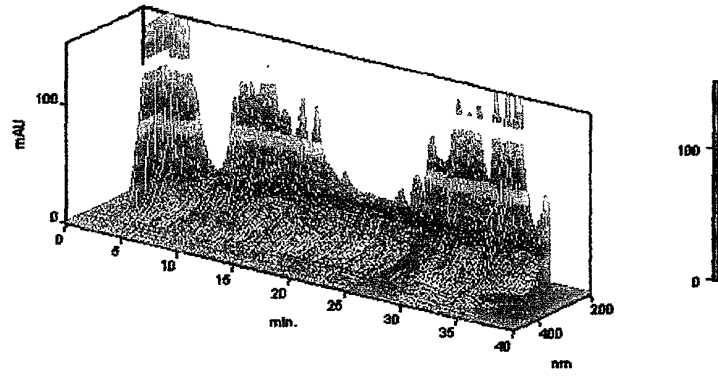


Figure 47



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101160 4426460

Figure 48

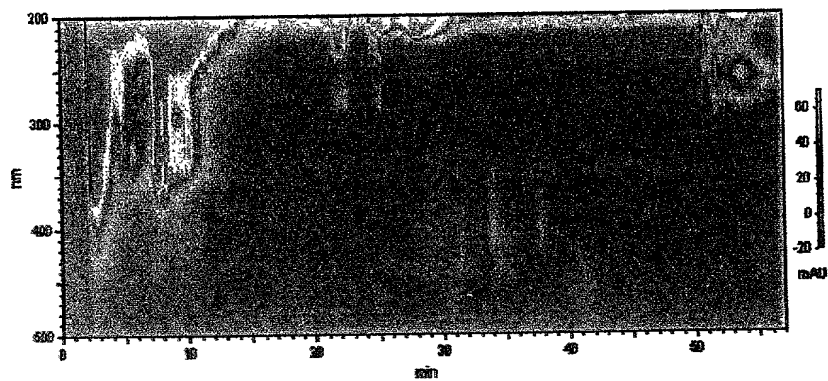
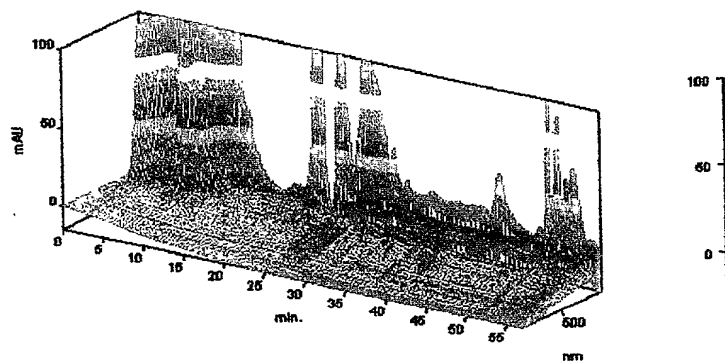
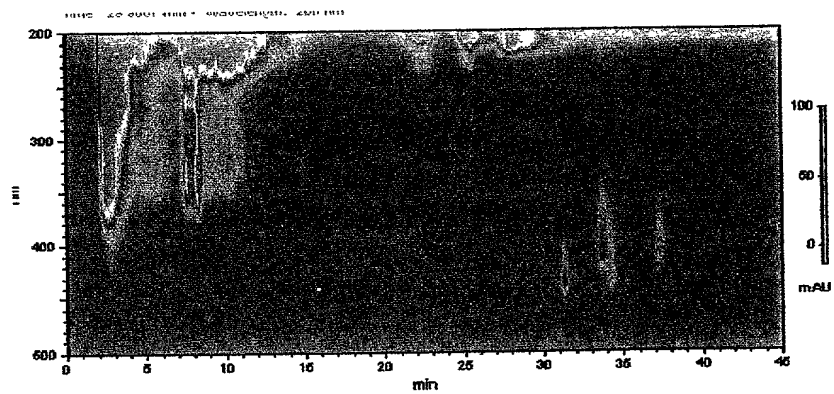
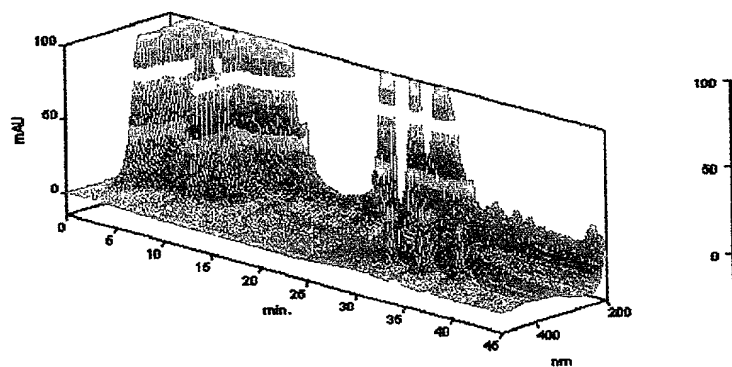


Figure 49



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Figure 50

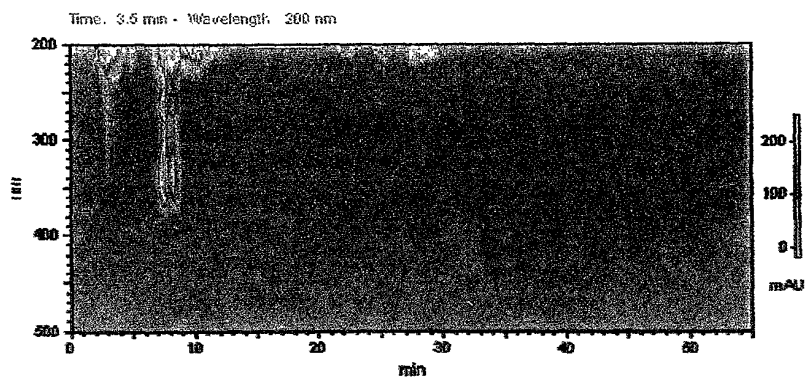
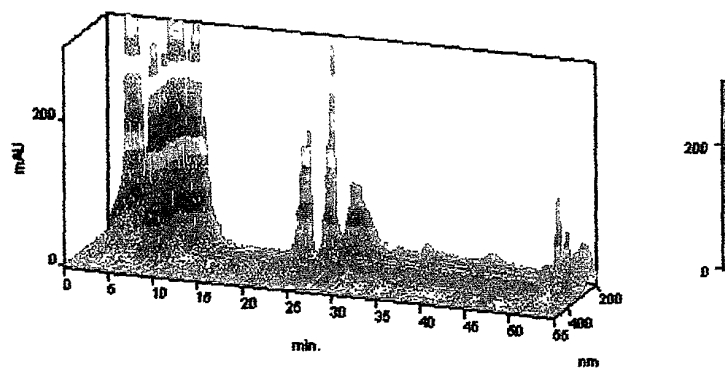


Figure 51

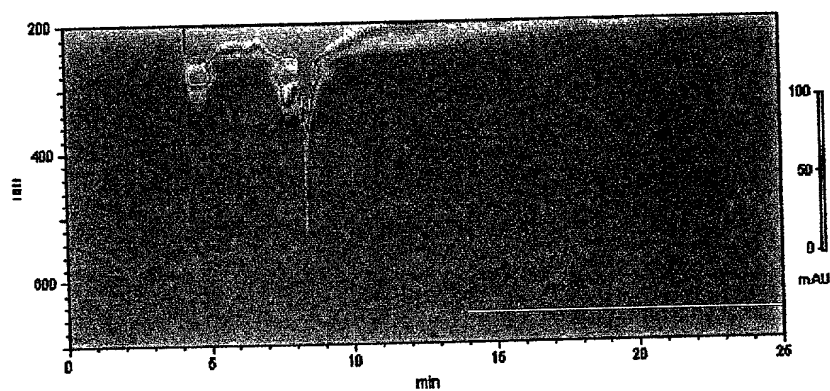
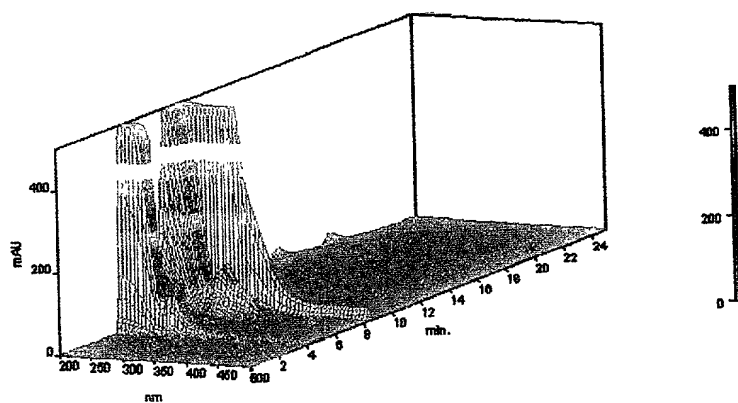


Figure 52

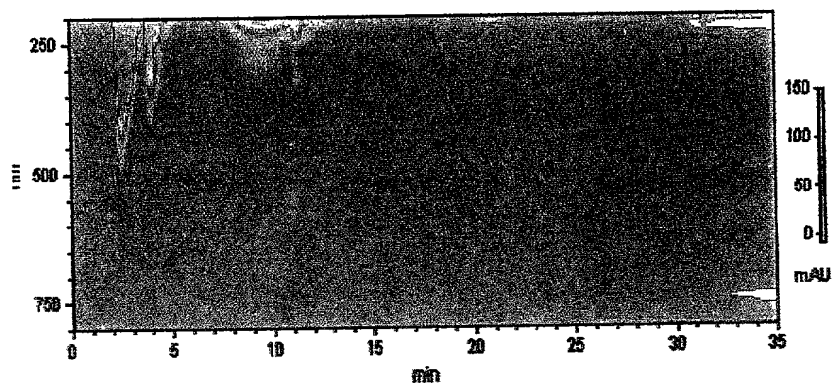
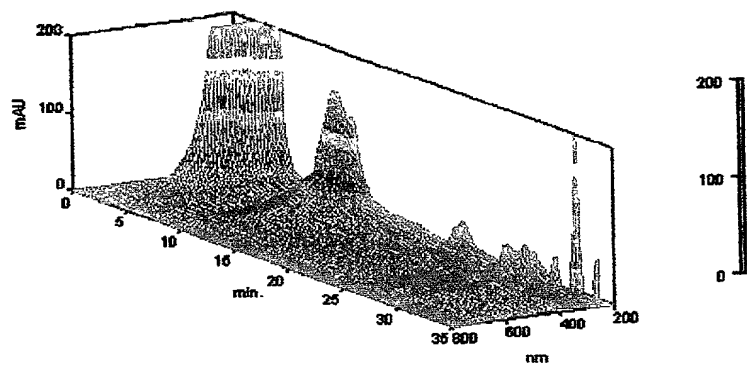




Figure 53

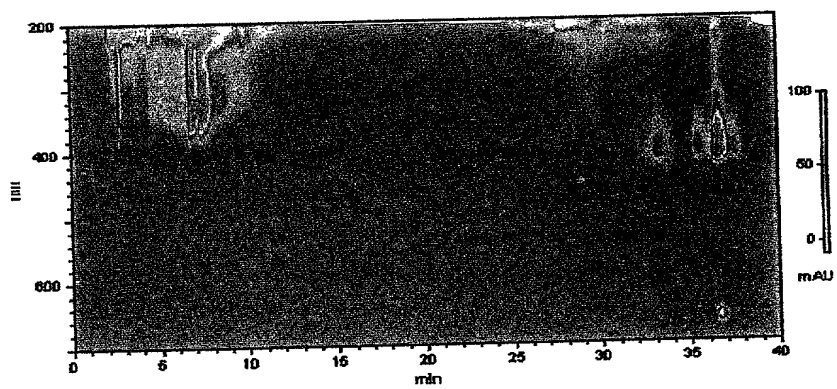
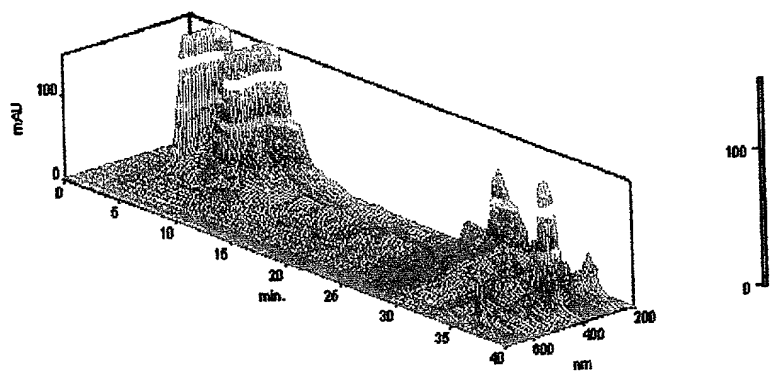
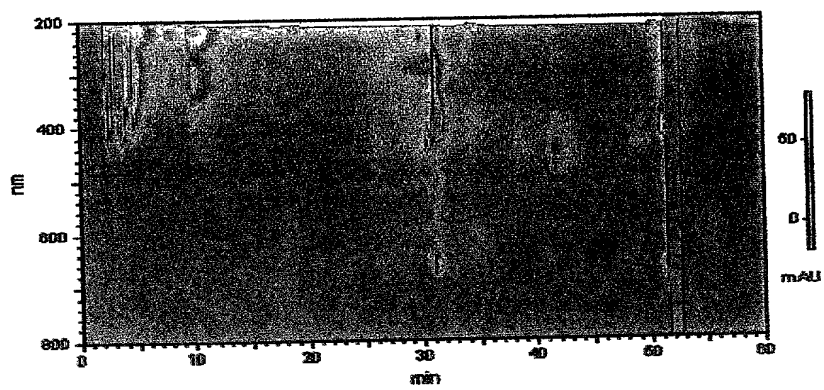
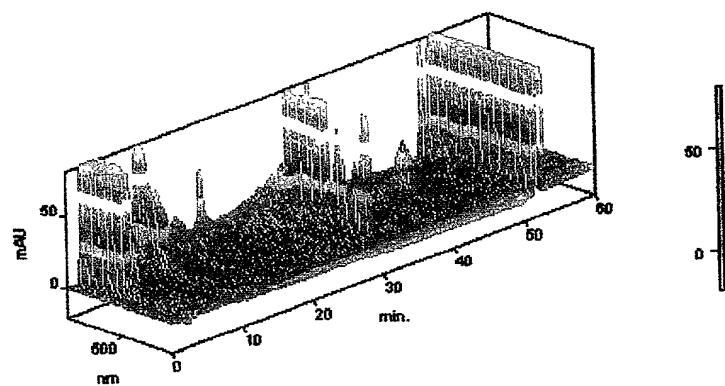


Figure 54



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Figure 55

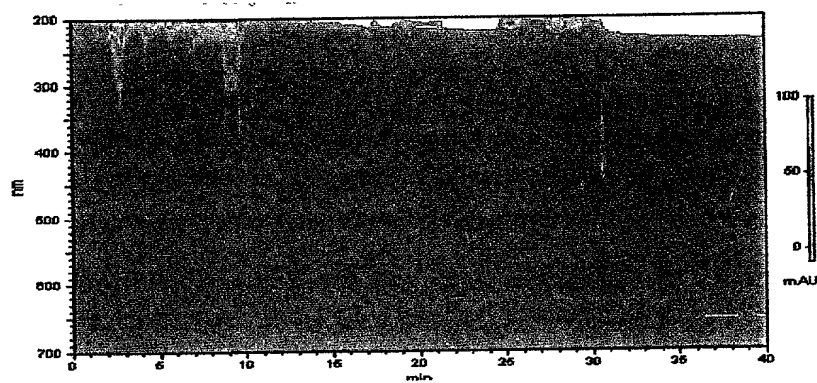
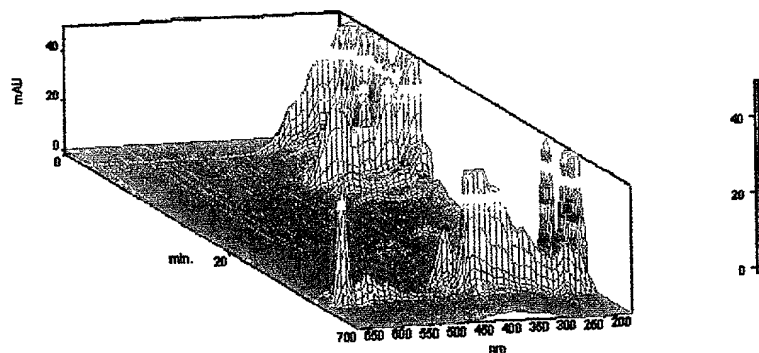


Figure 56

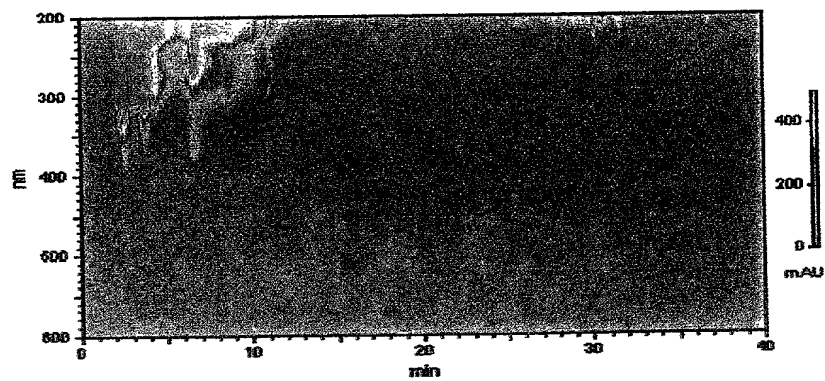
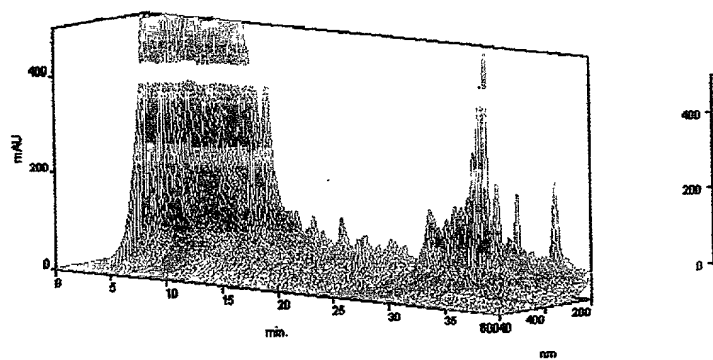
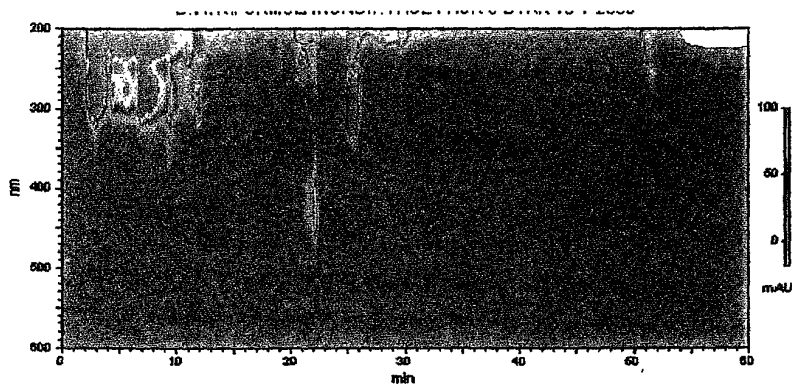
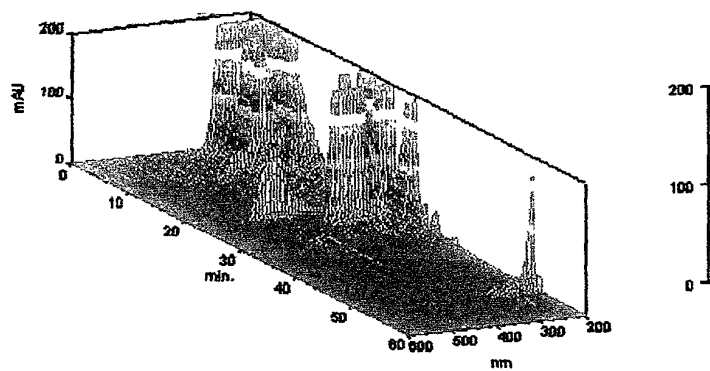


Figure 57



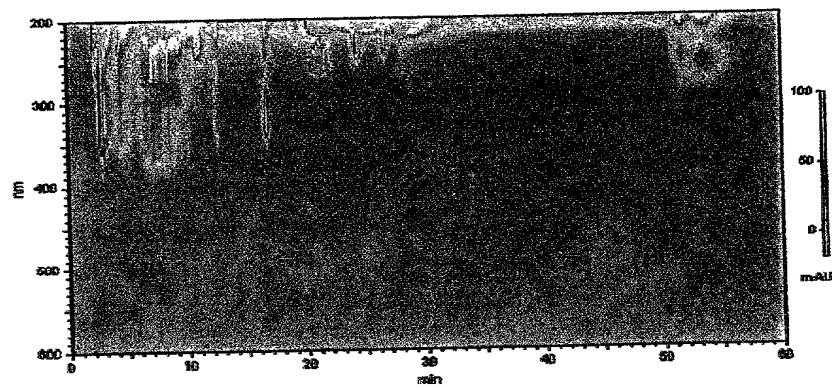
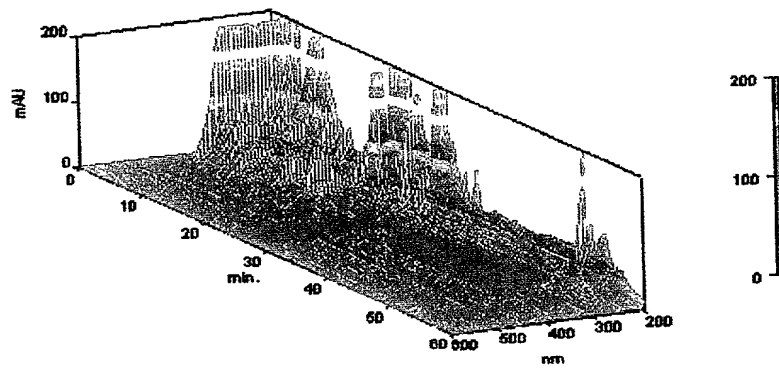


Figure 59

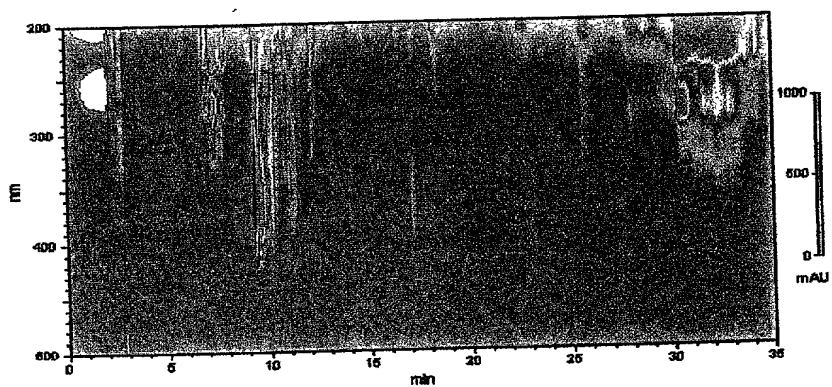
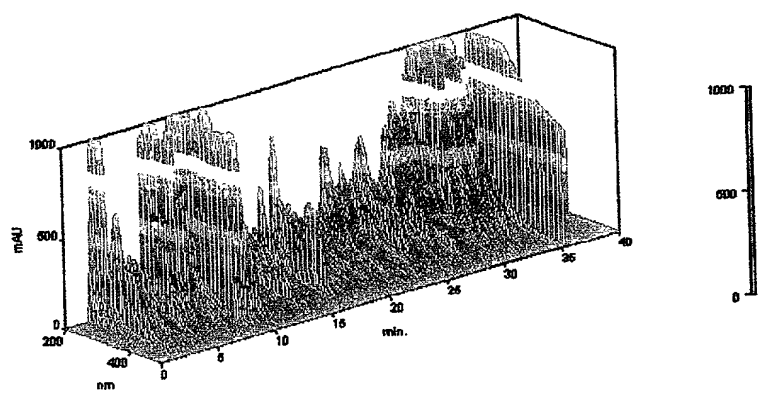
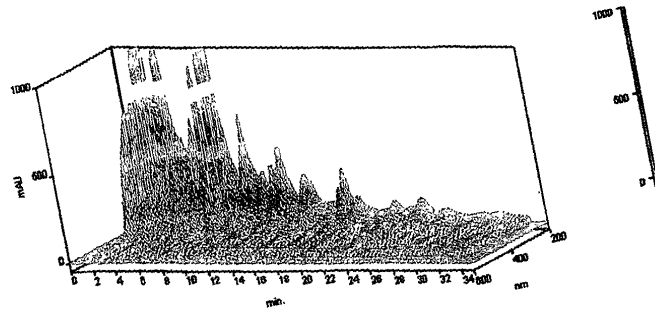


Figure 60



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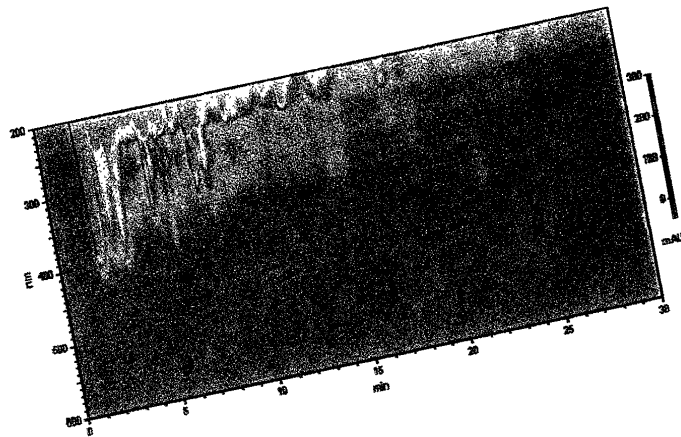




Figure 61

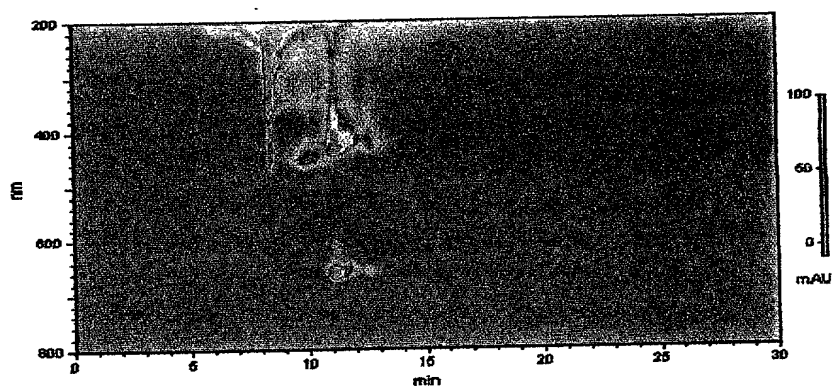
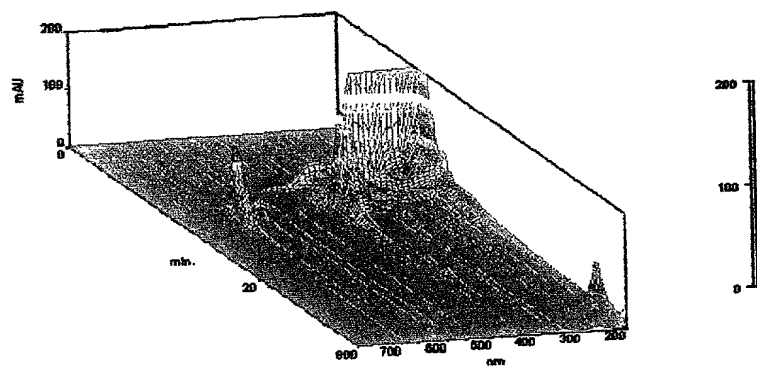
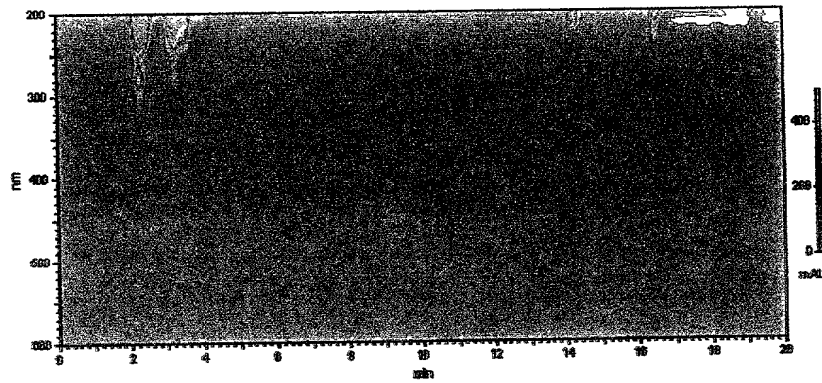
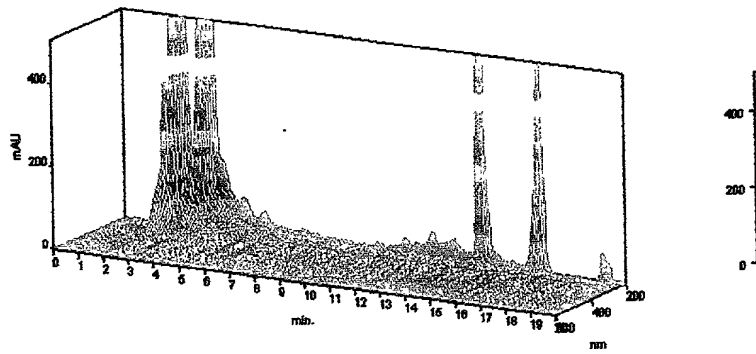


Figure 62



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1.004600 2266660

FIGURE 63

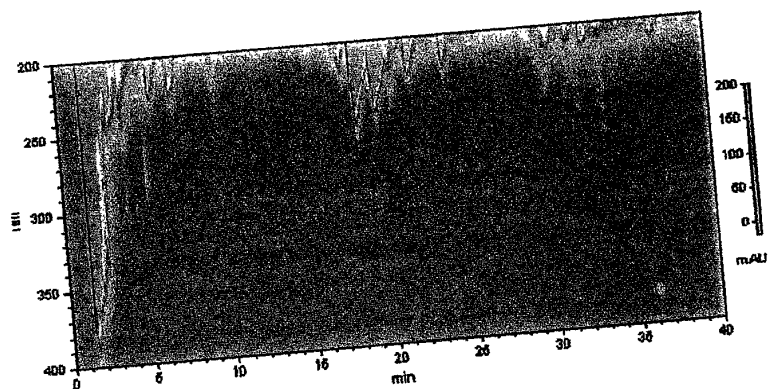
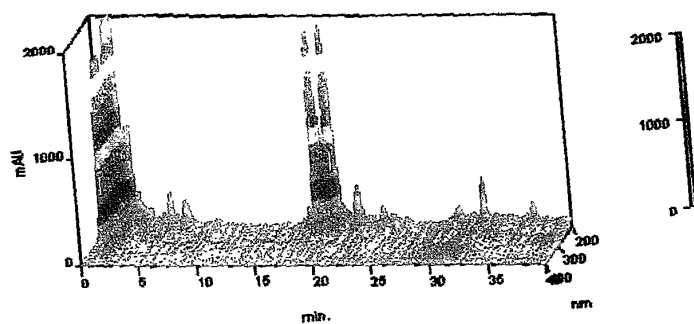


Figure 64

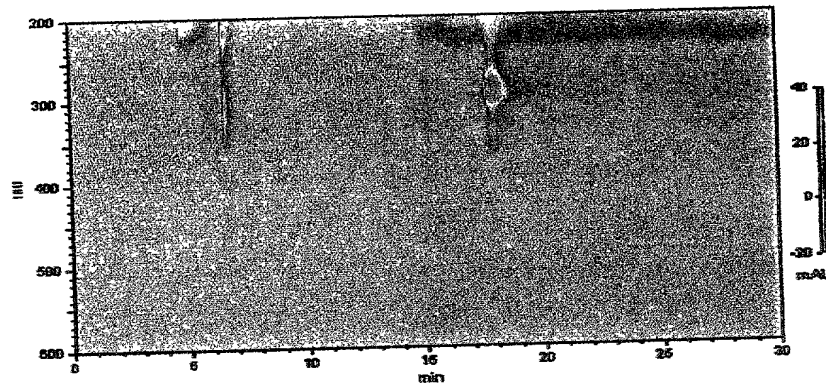
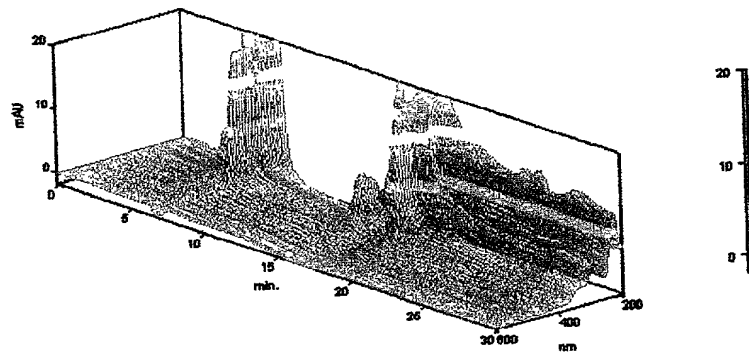


Figure 65

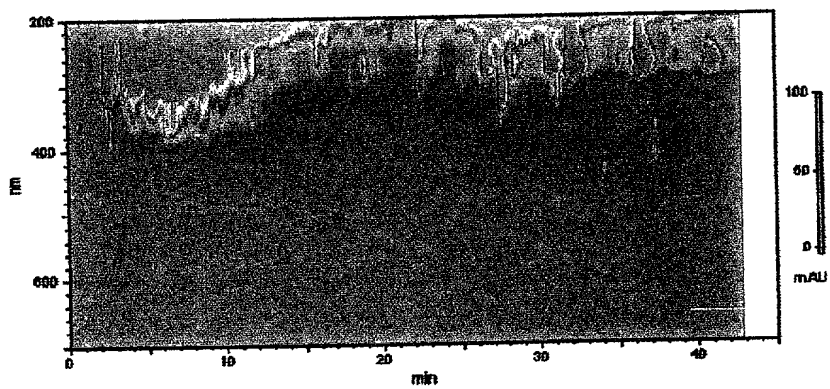
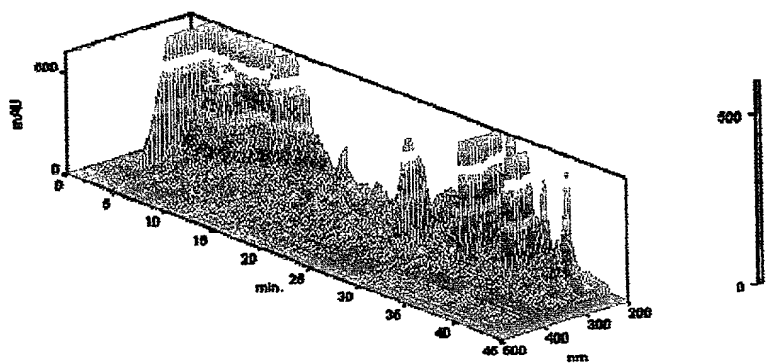
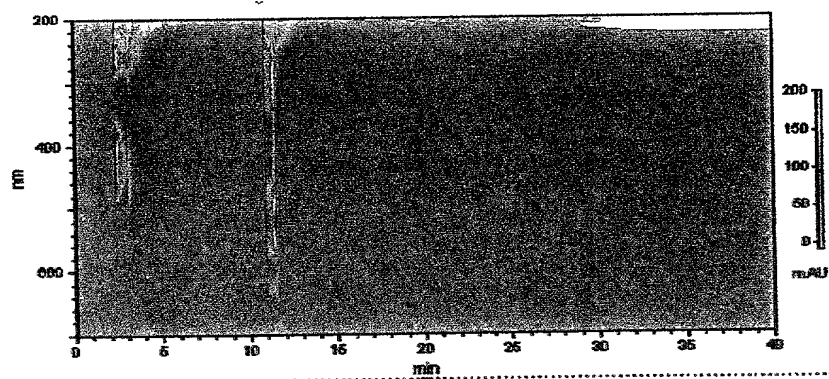
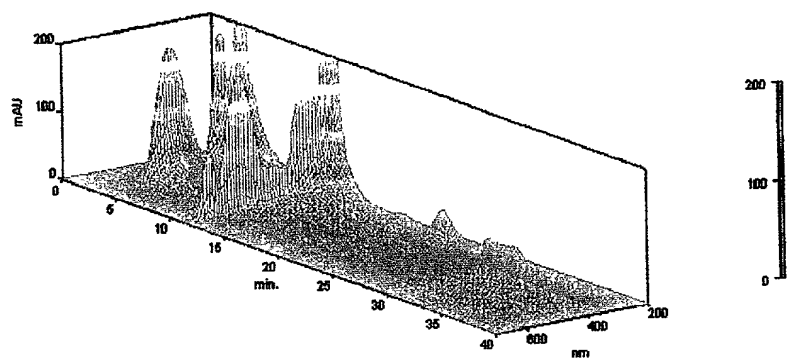
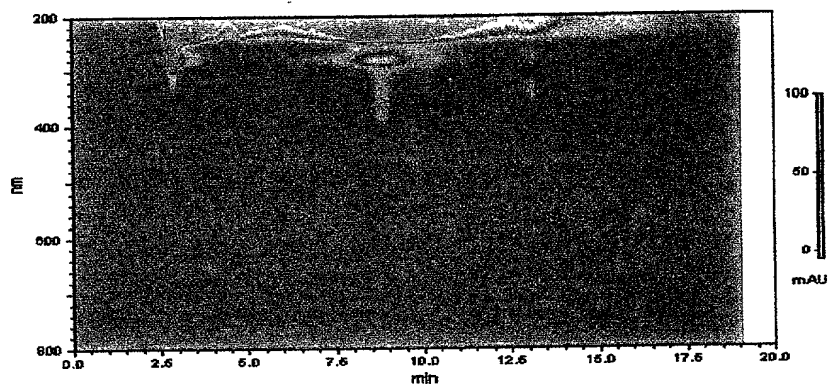
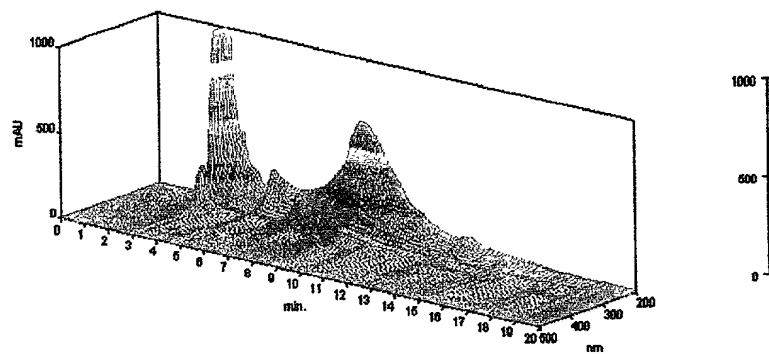


Figure 66



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Figure 67



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Figure 68

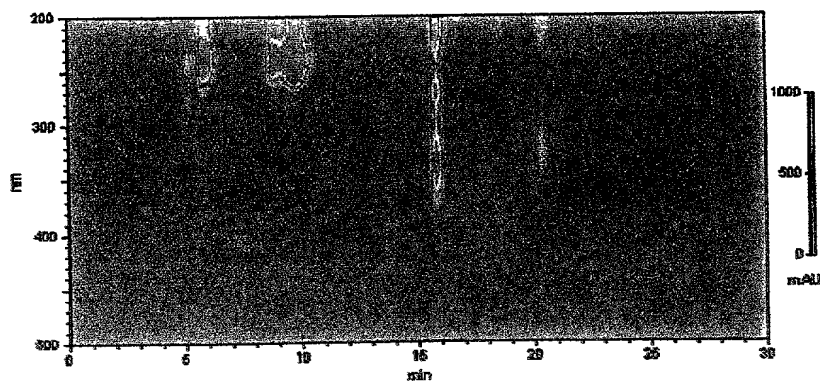
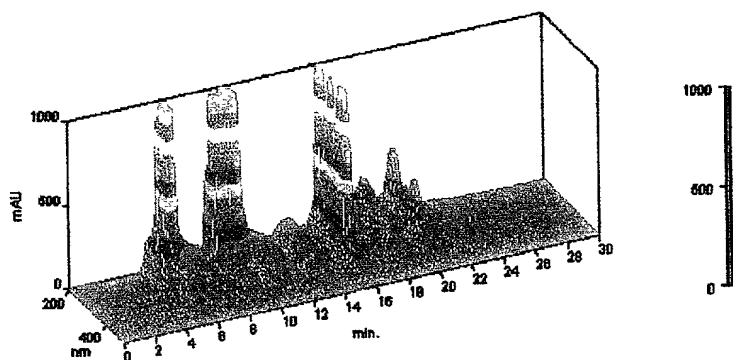
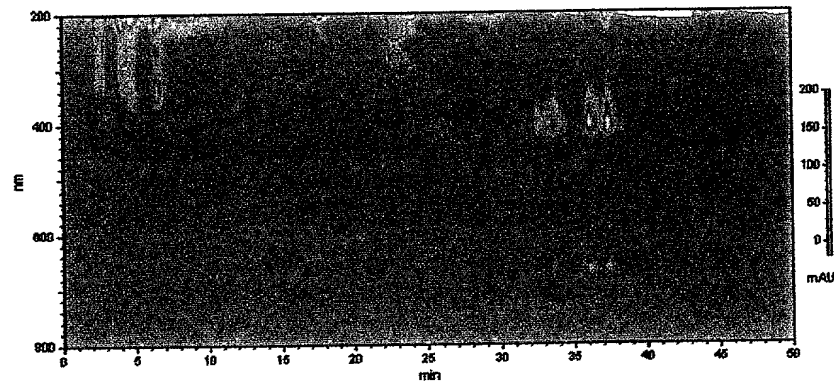
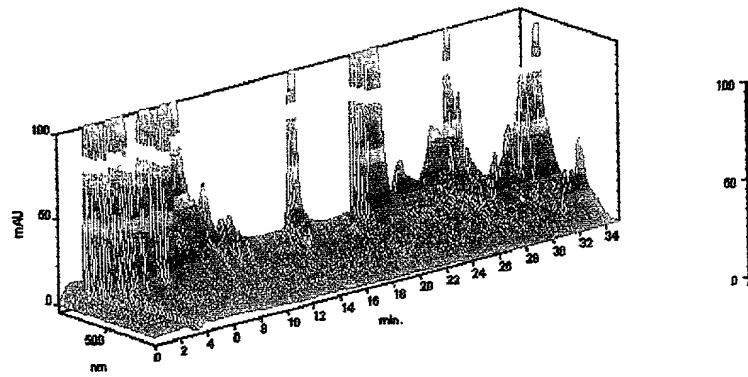




Figure 69



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Figure 70

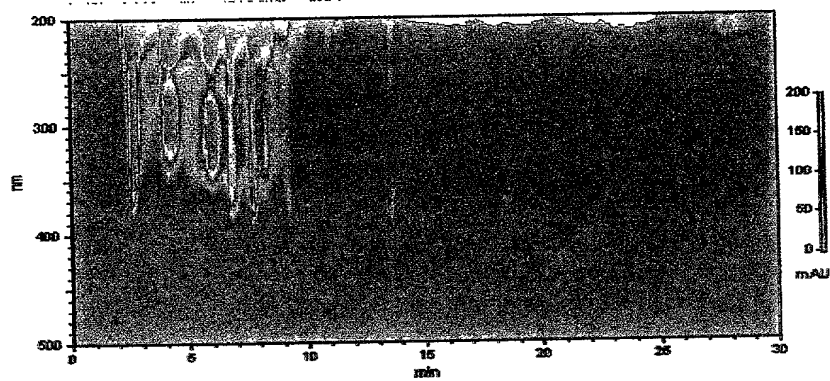
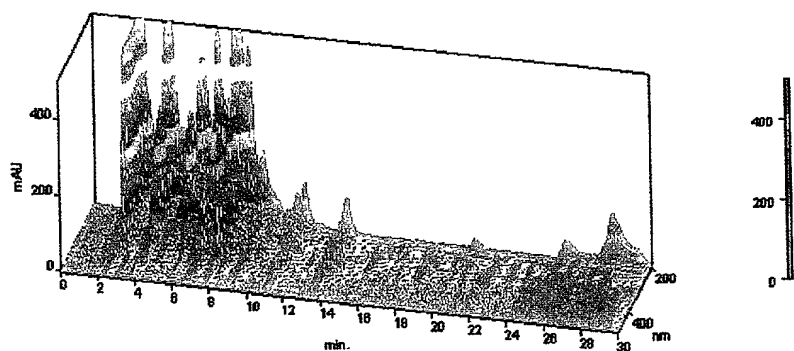


Figure 71

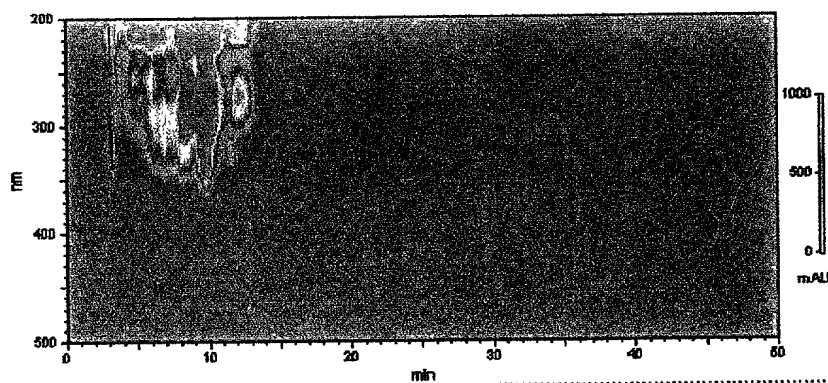
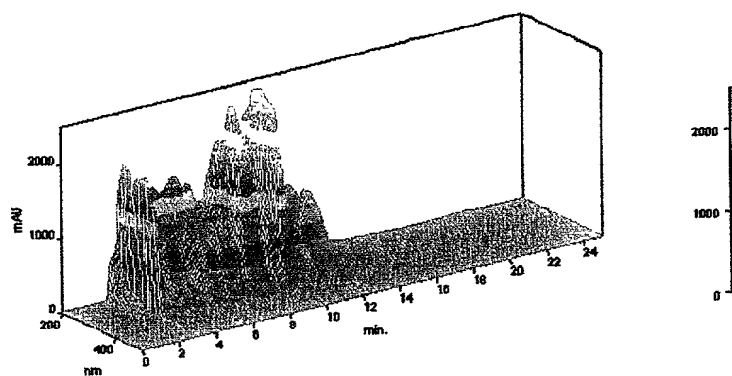


Figure 72

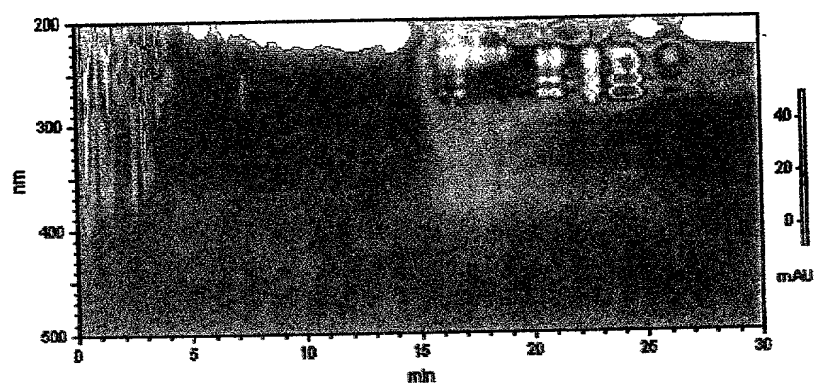
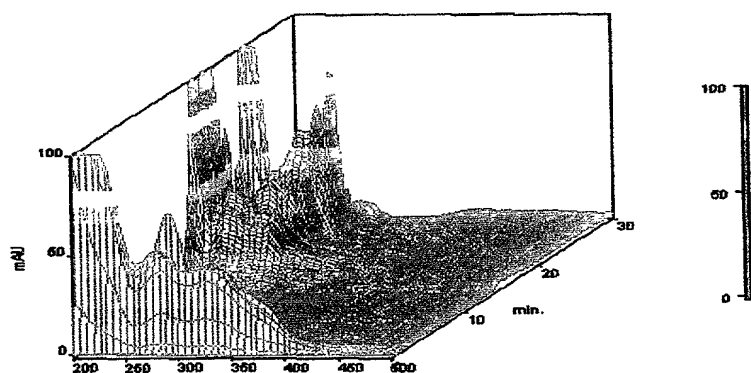


Figure 73

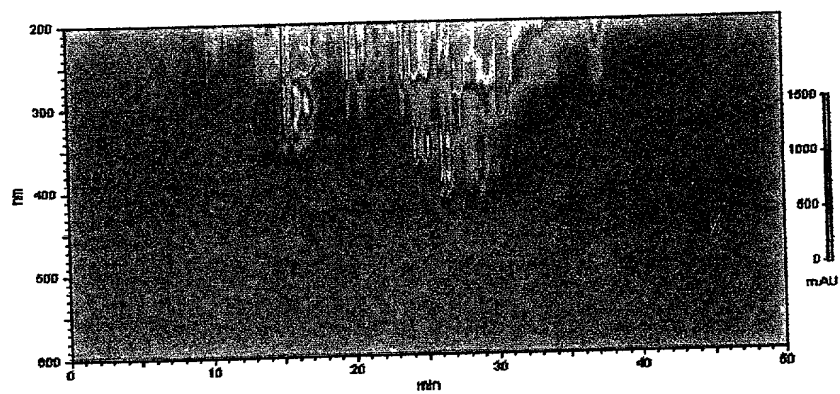
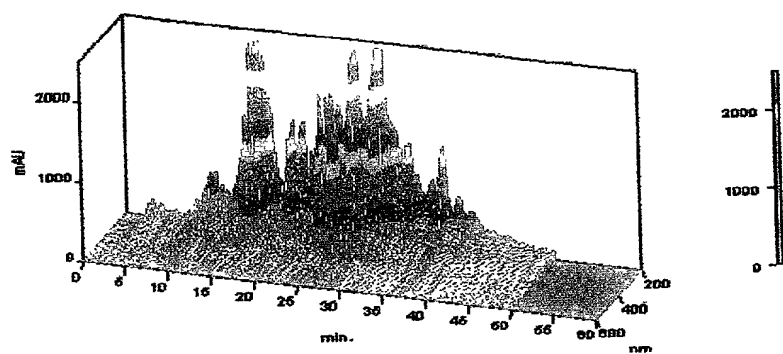


Figure 74

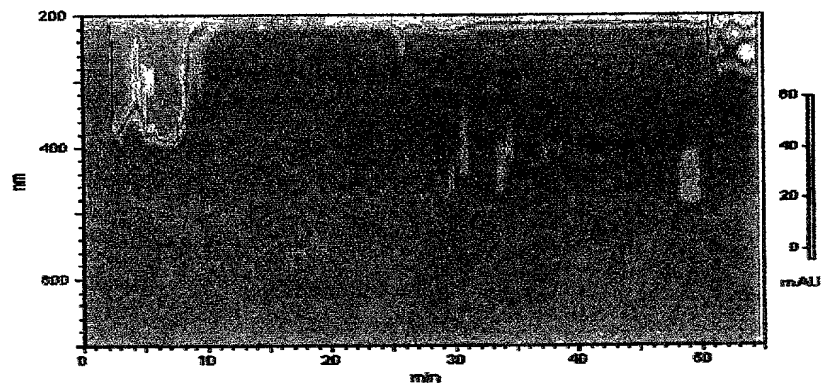
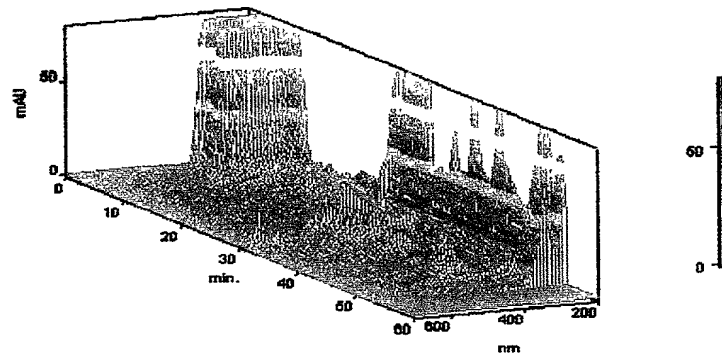
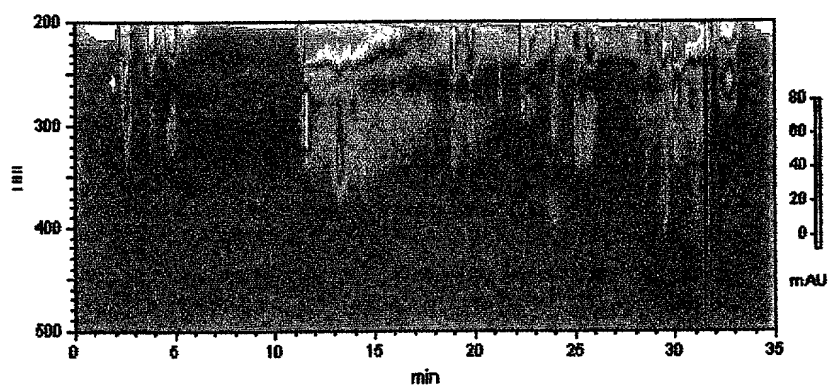
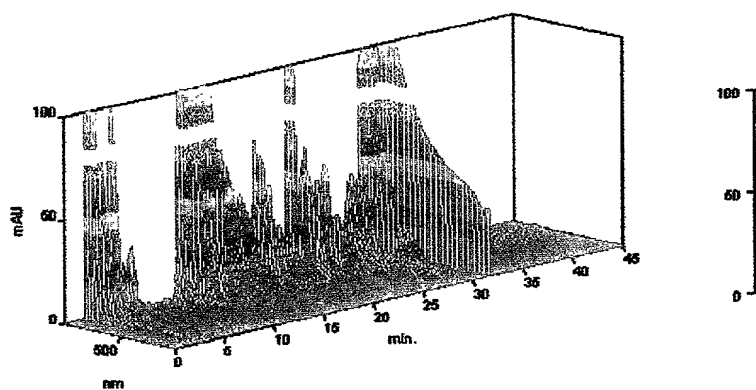
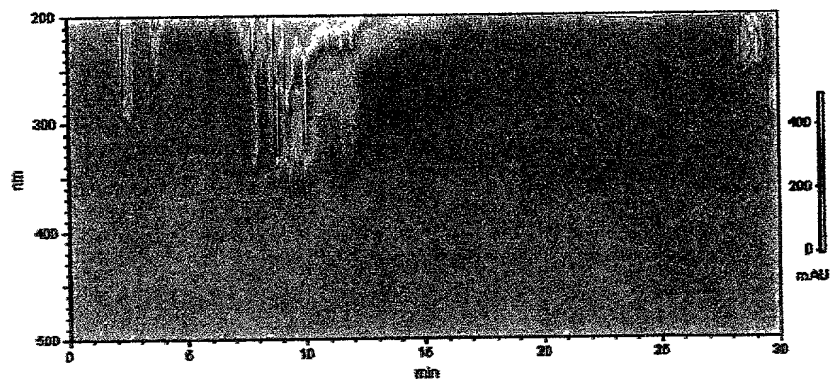
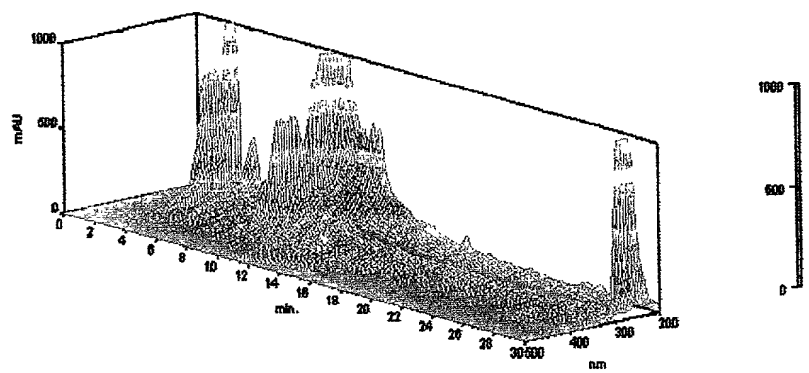


Figure 75



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Figure 76



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16-07-00 12:00:00



Figure 77

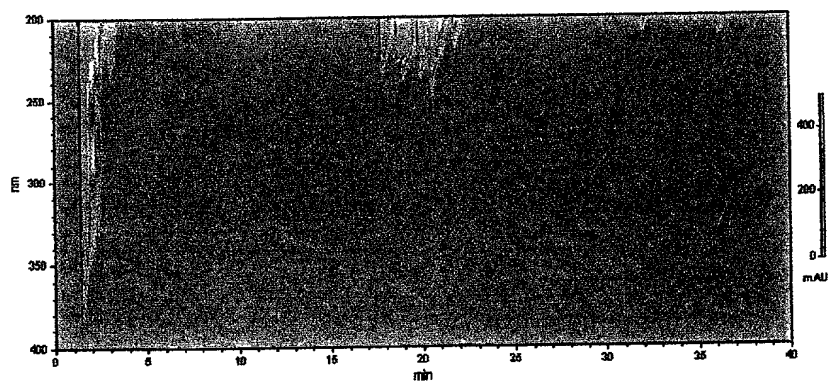
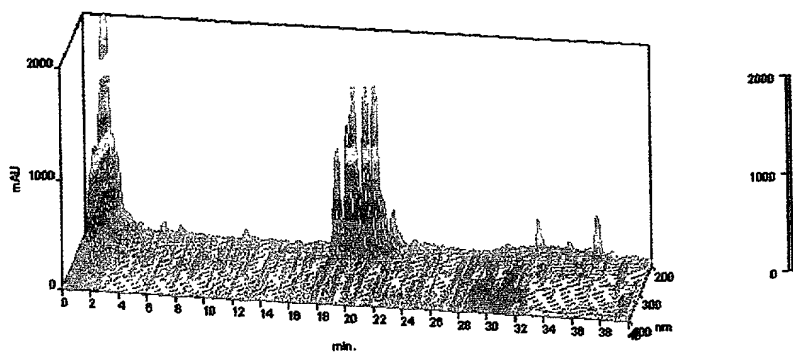


Figure 78

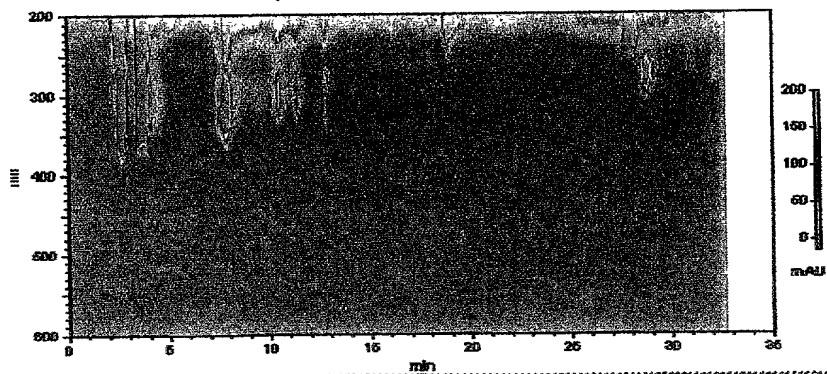
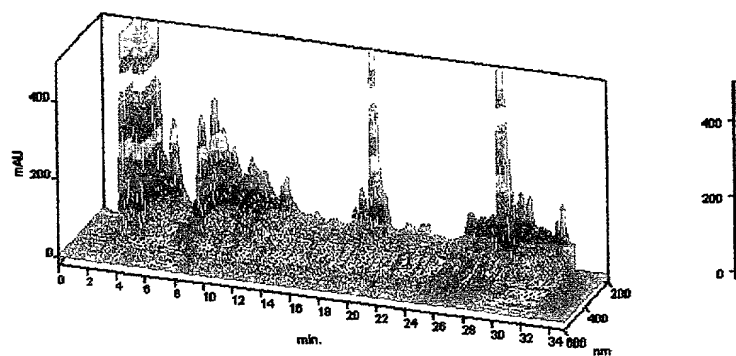


Figure 79

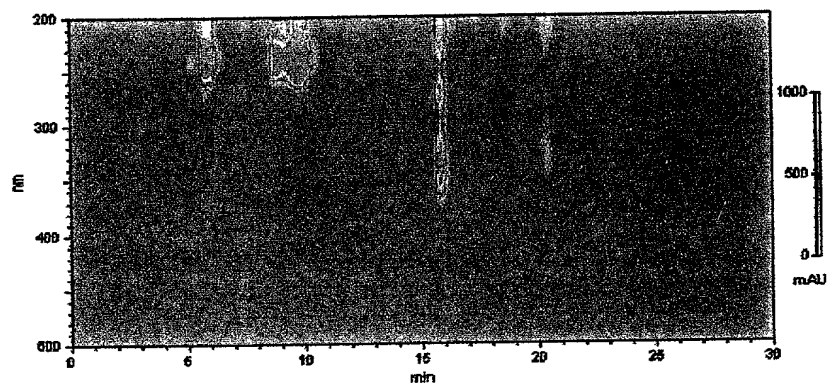
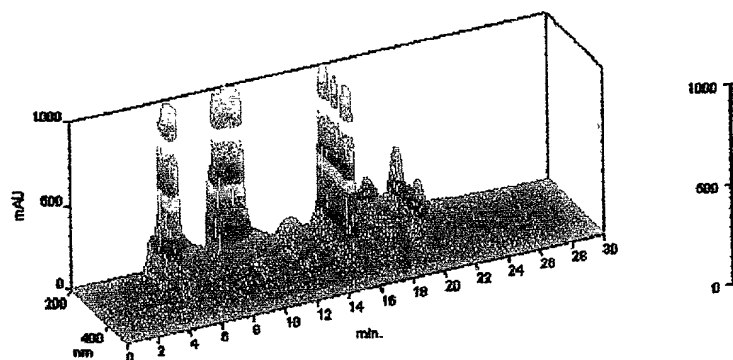


Figure 80

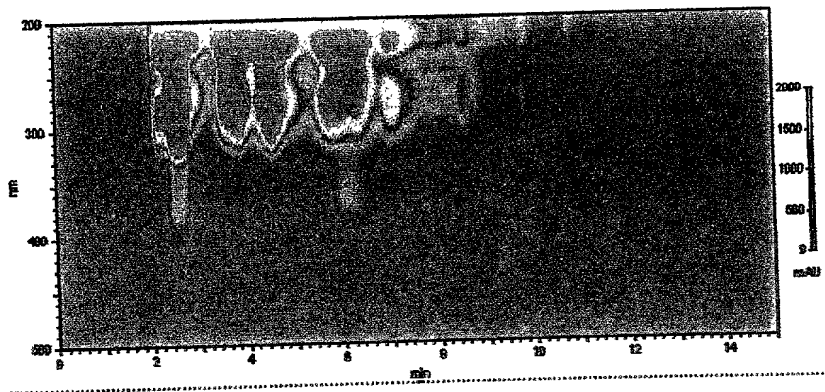
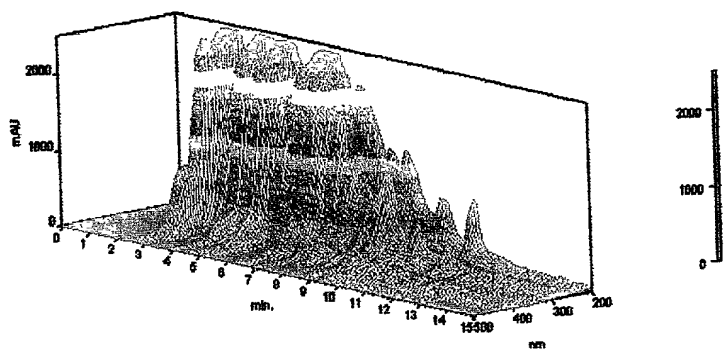


Figure 81

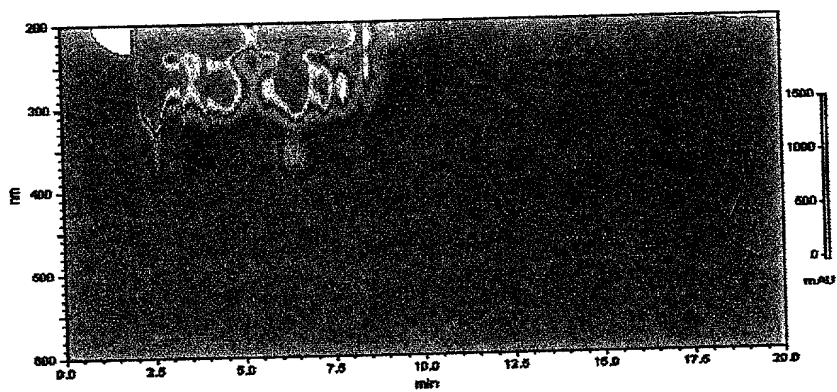
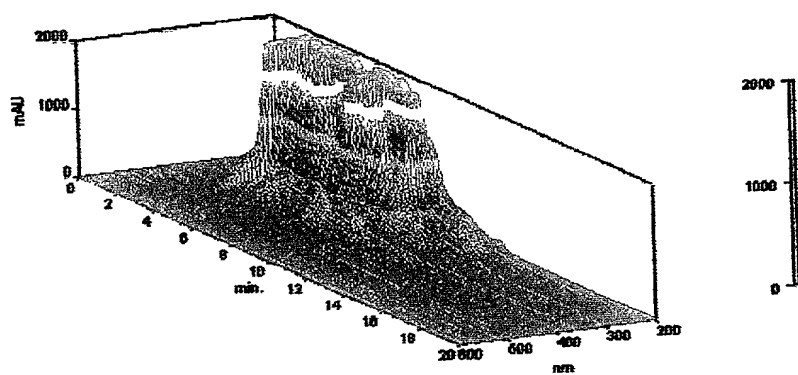


Figure 82

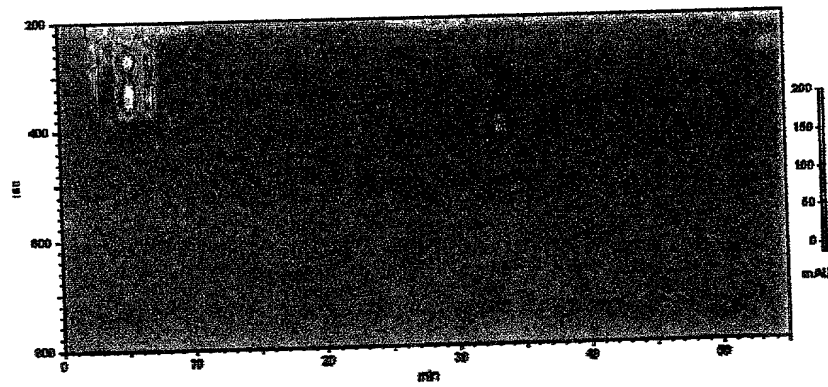
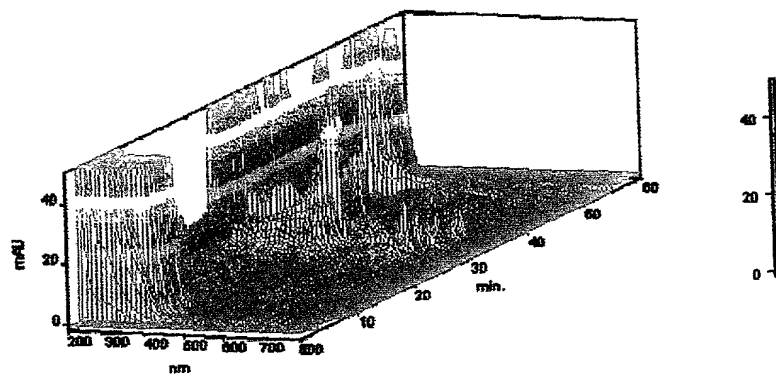
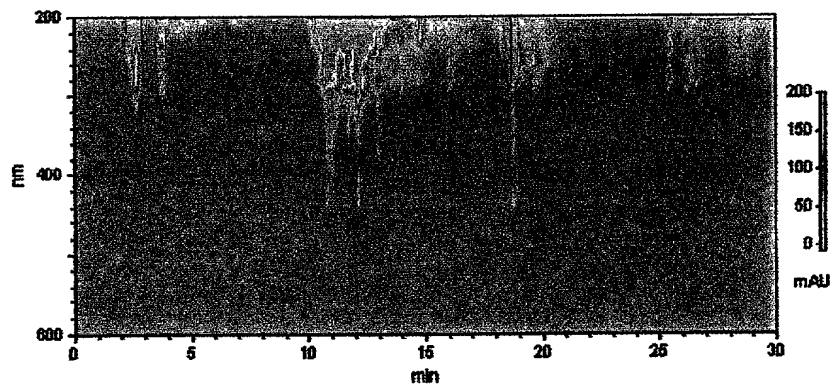
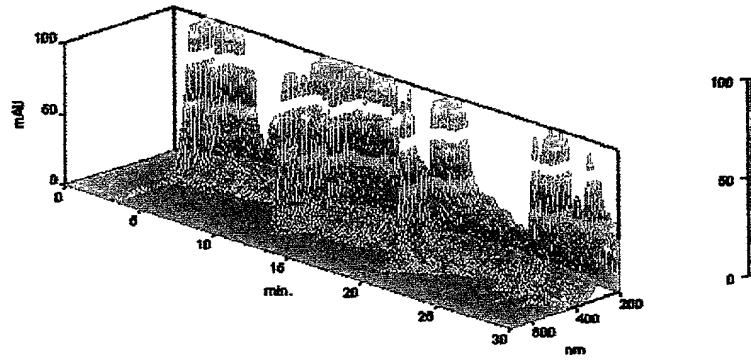


Figure 83



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00160 00000

Figure 84

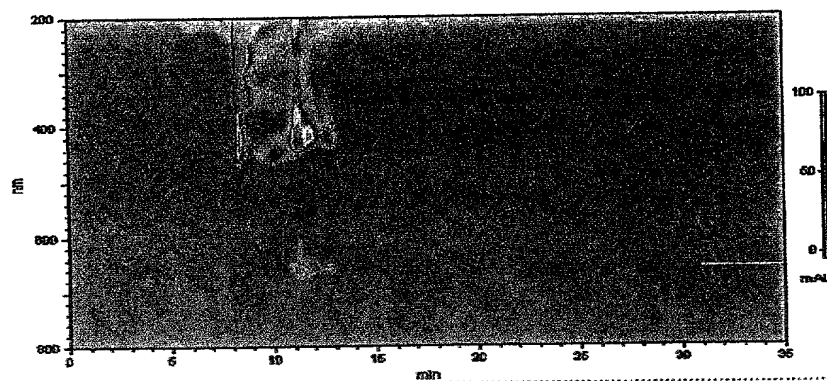
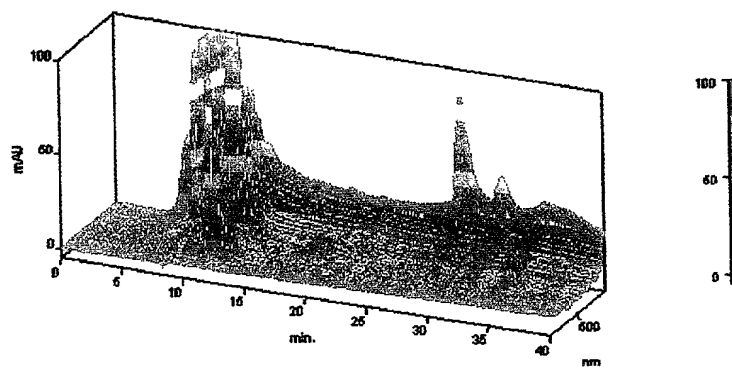




Figure 85

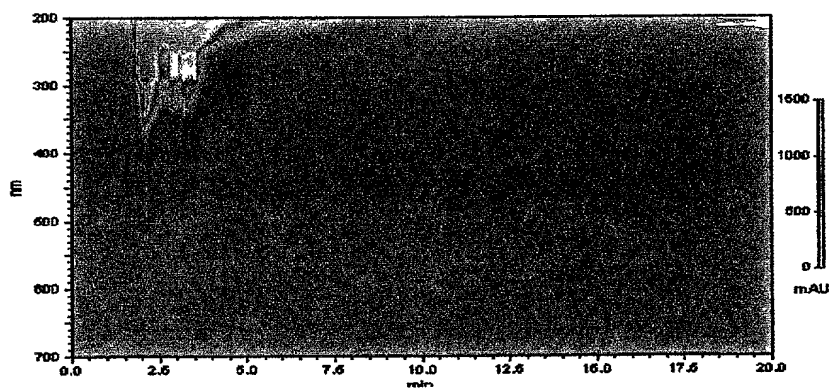
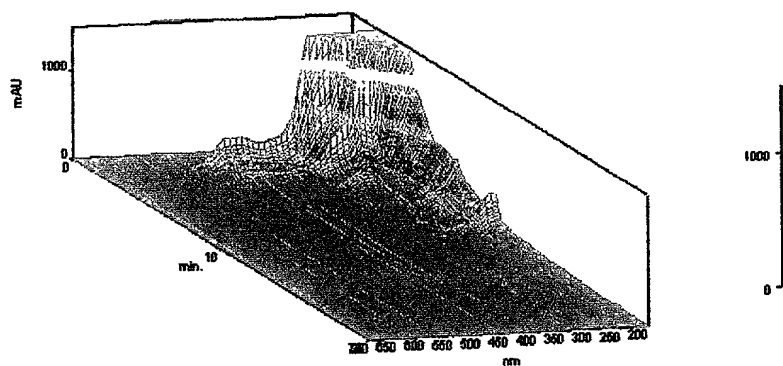


Figure 86

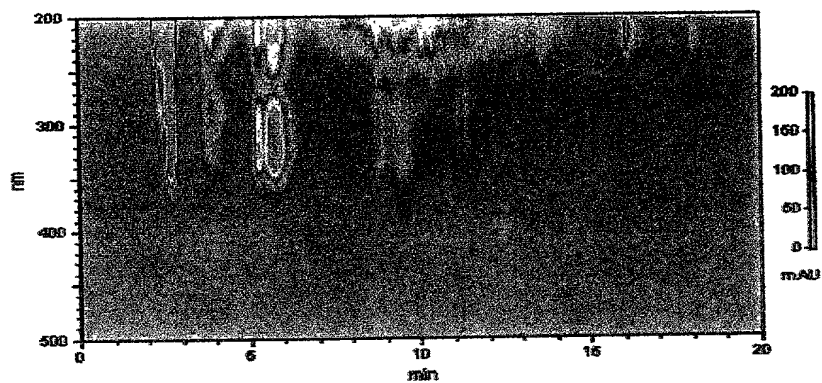
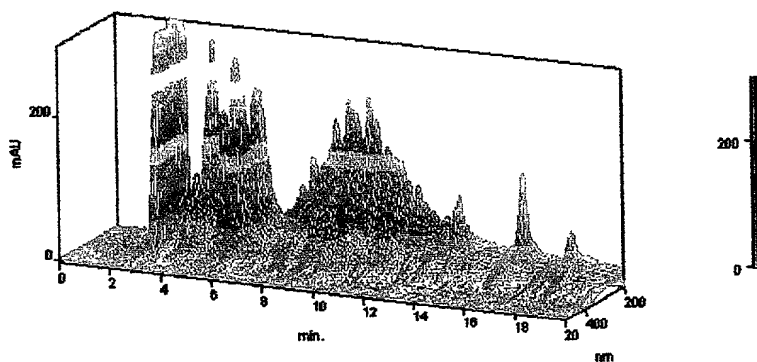


FIGURE 87

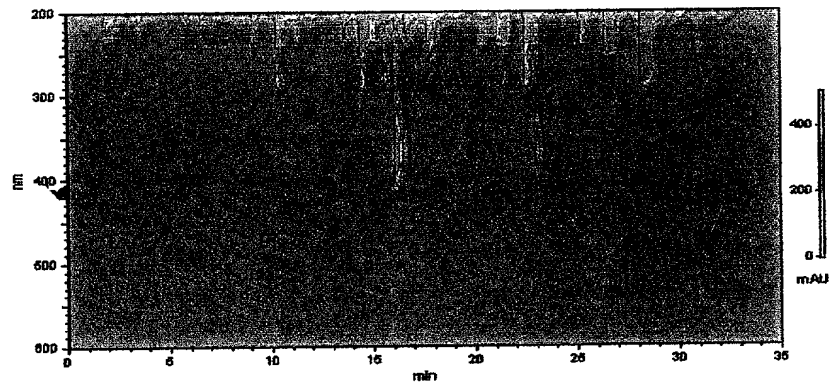
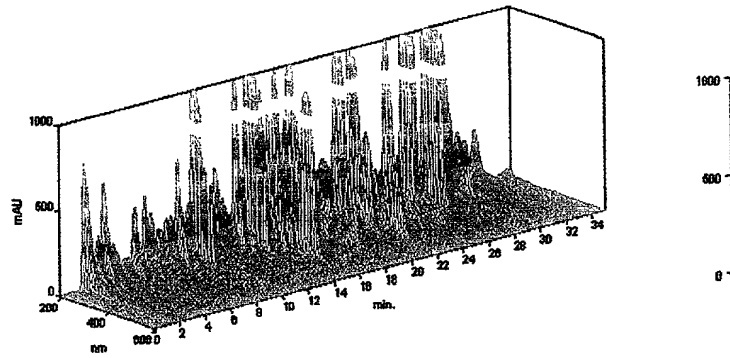


Figure 88

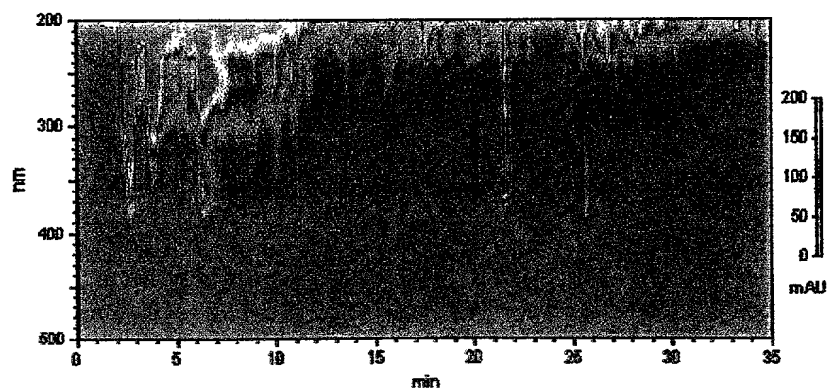
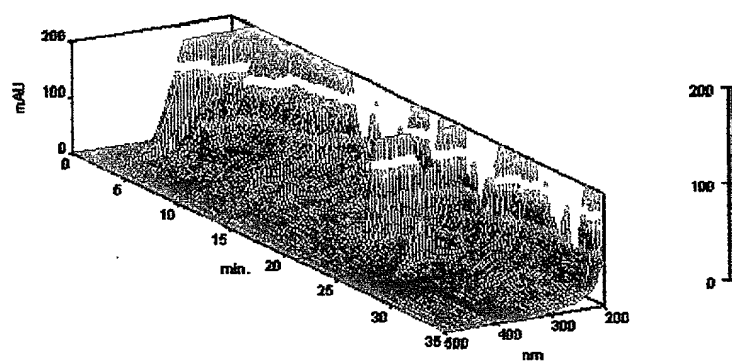


Figure 89

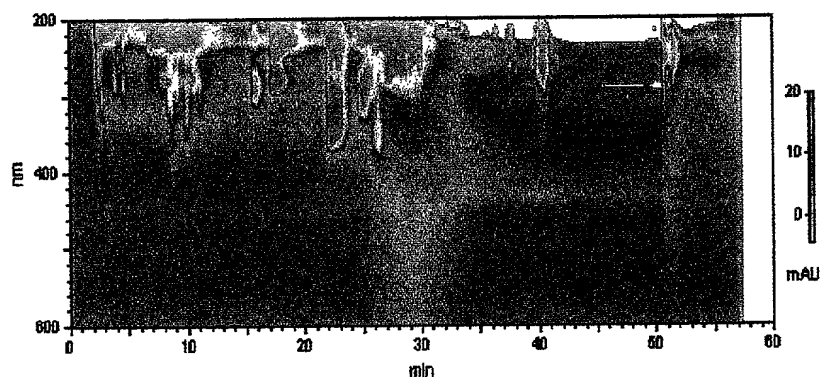
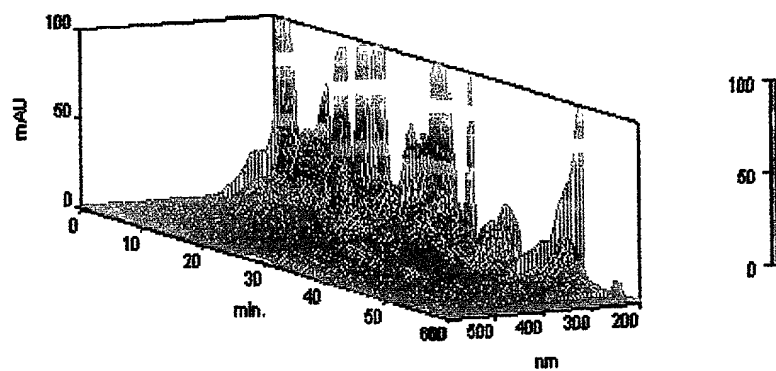


Figure 90

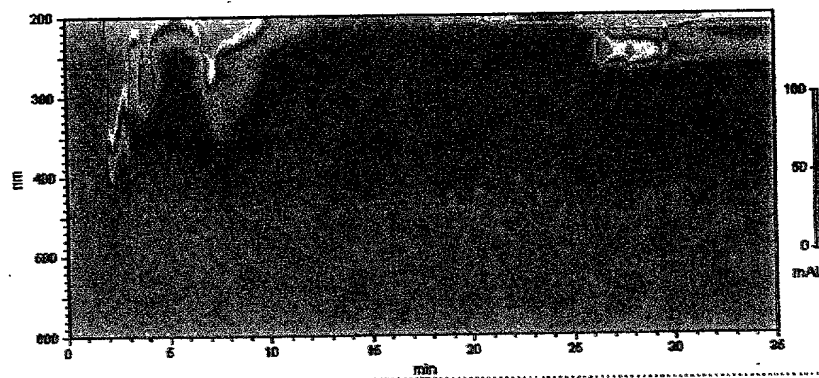
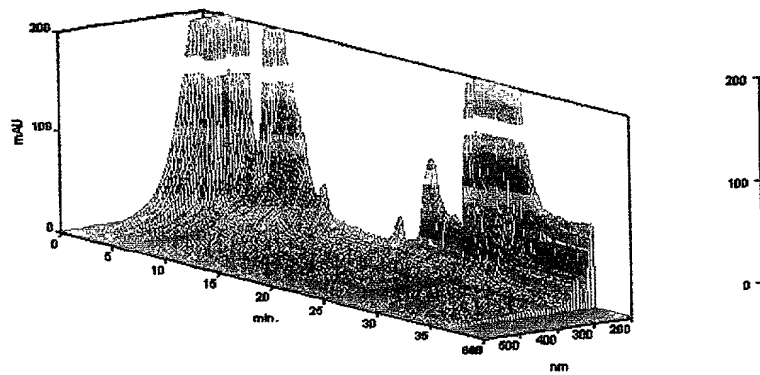


Figure 91

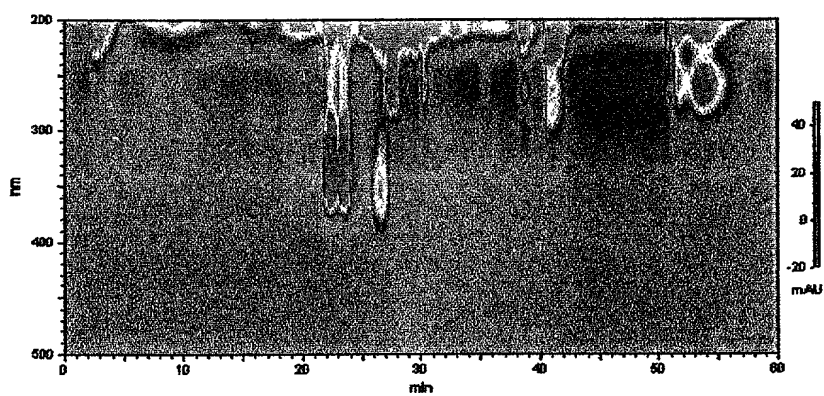
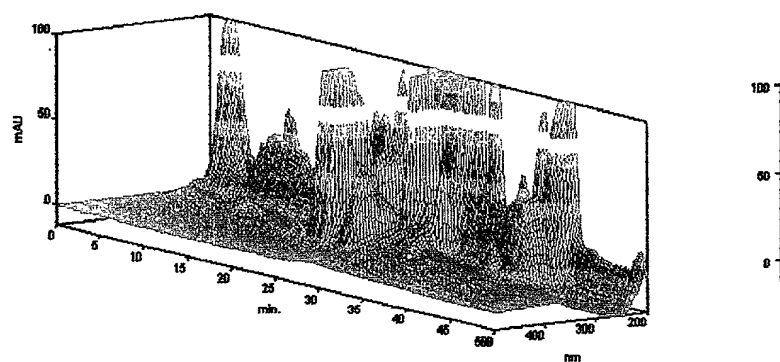
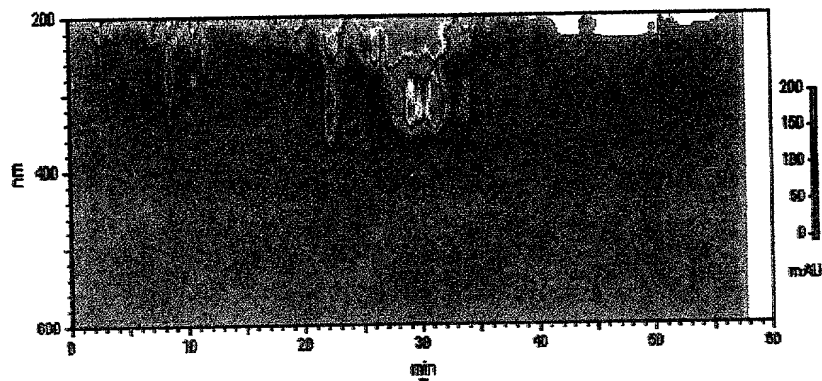
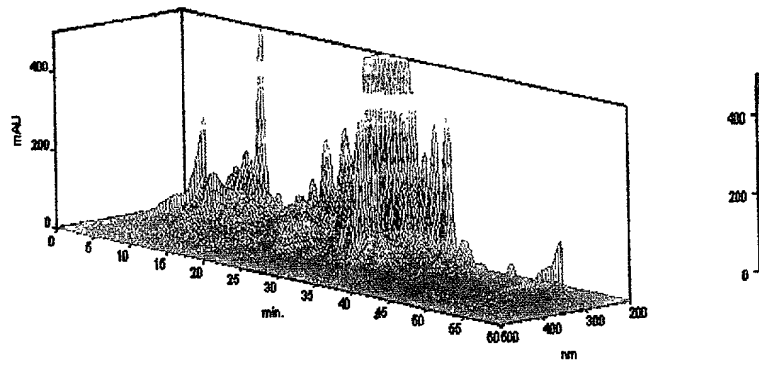
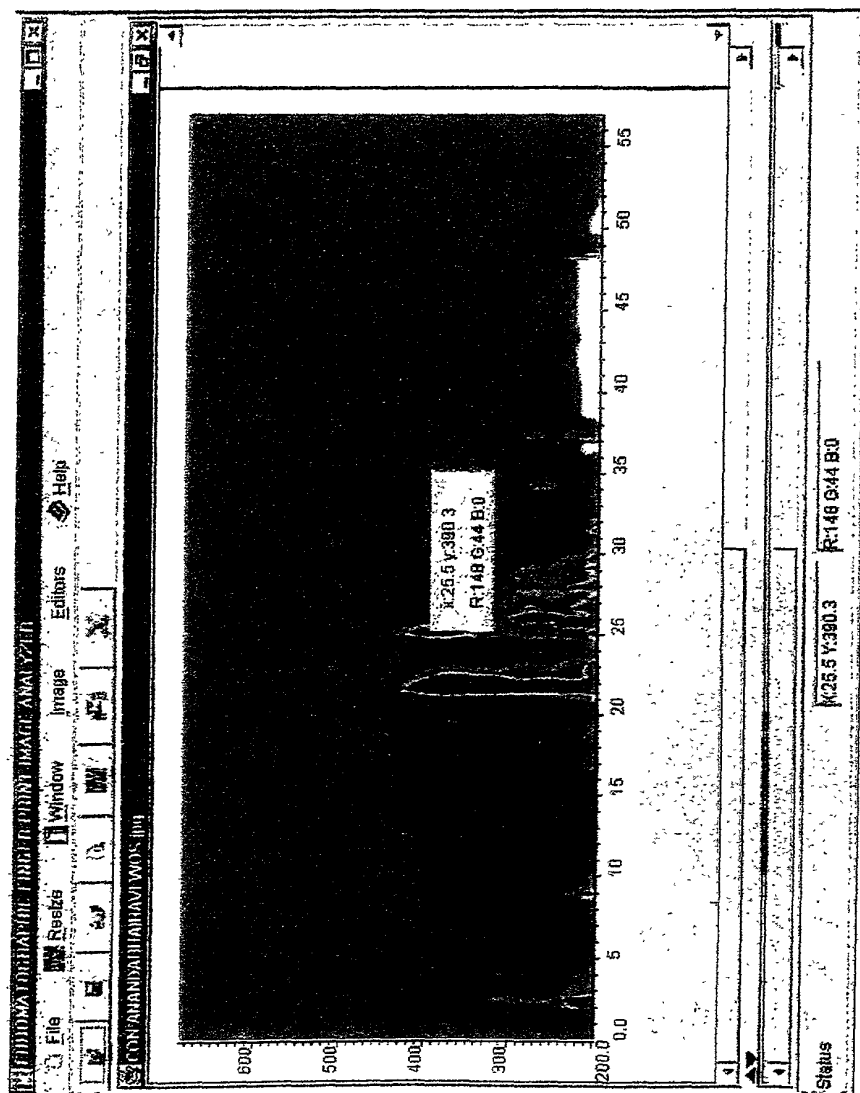


Figure 92





IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED  
FOR A BAR CODING SOFTWARE



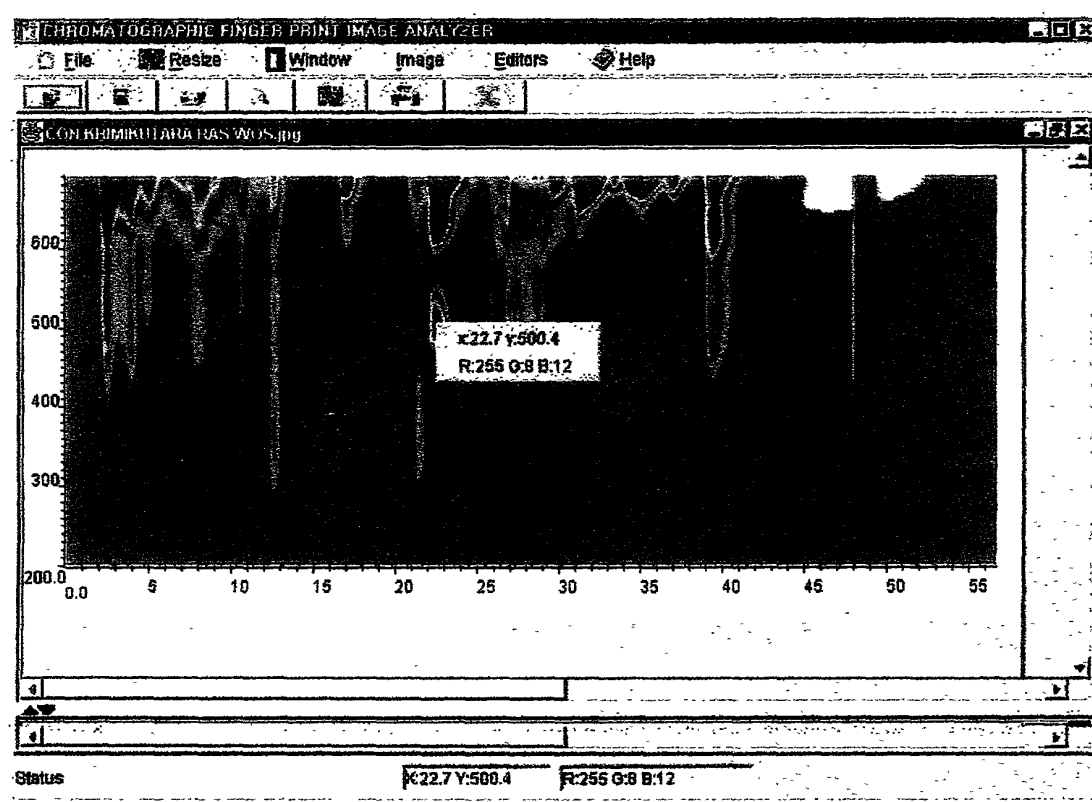
### Anandabhairavi Ras

Y right clicking the image software is able to show the coordinates on the box near the peak . The same is shown in down tool bar. These will be exported to barcoding software which generates a barcode for the said values.

Figure 93

Figure 94

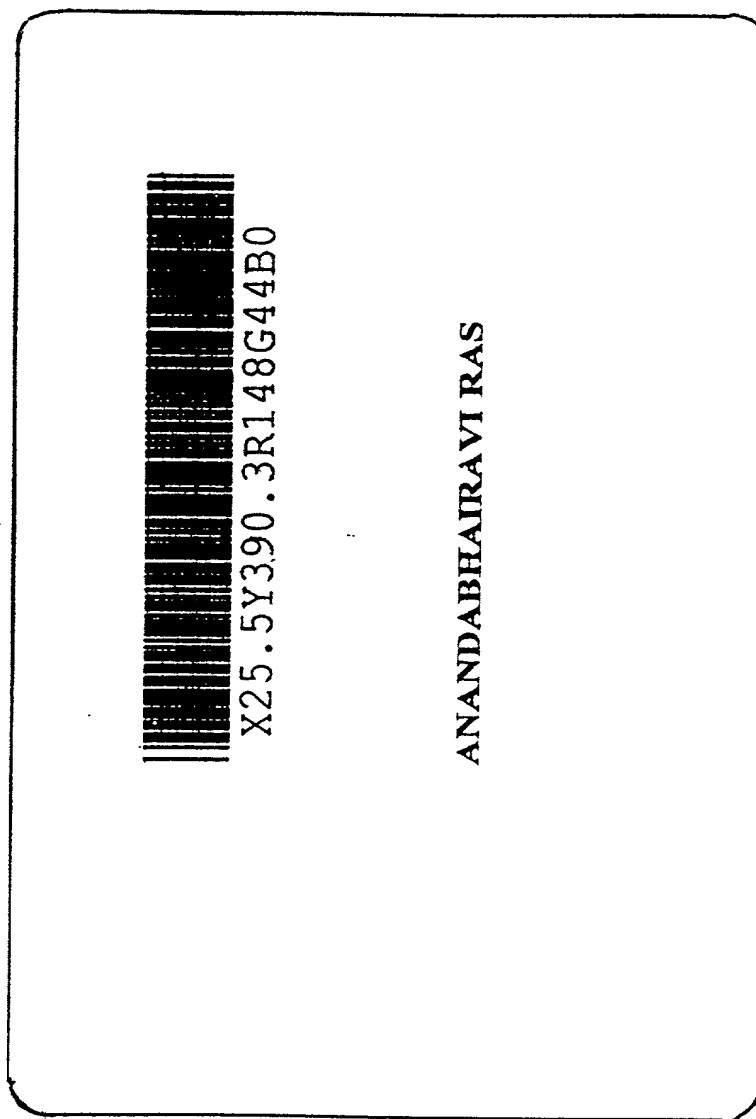
IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE



**Krimikutara Ras**


Same mechanism as explained in Figure 93

FOI b7E b7C




Barcode generated for specified coordinates

Figure 95



X22.7Y500.4R255G8B12

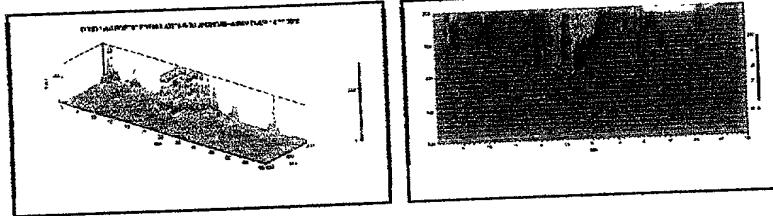
KRIMIKUTARA RAS



X22.7Y500.4R255G8B12

Figure 97

**Name of the product: Anandabhairavi Ras**  
**Owner: Industry**  
**Finger prints:**



Mfg. Date:  
Date of expiry:  
Individual constituents:  
Batch number:  
Lot number:  
M.R.P:  
Dosage:  
Precautions:  
For Children:  
For pregnant woman:

Barcode:



X25.5Y390.3R148G44R0

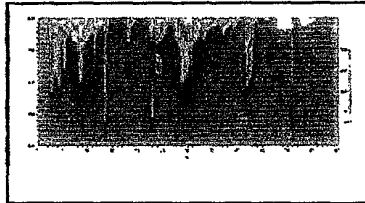
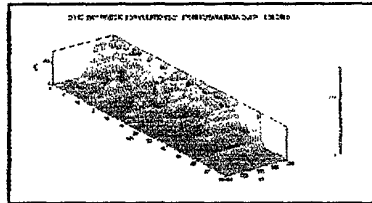
ANANDABHAIRAVI

**Display Window For Anandabhairavi Ras**

Display windows for all the medicines will be done. This becomes a database for ERP CRM application.

Figure 98

**Name of the product: Krimikutara Ras**  
**Owner: Industry**  
**Finger prints:**



**Mfg. Date:**  
**Date of expiry:**  
**Individual constituents:**  
**Batch number:**  
**Lot number:**  
**M.R.P:**  
**Dosage:**  
**Precautions:**  
**For Children:**  
**For pregnant woman:**

**Barcode:**



X22.7Y500.4R255G8B12

KRIMIKUTARA RAS

**Display Window For Krimikutara Ras**

Figure 99

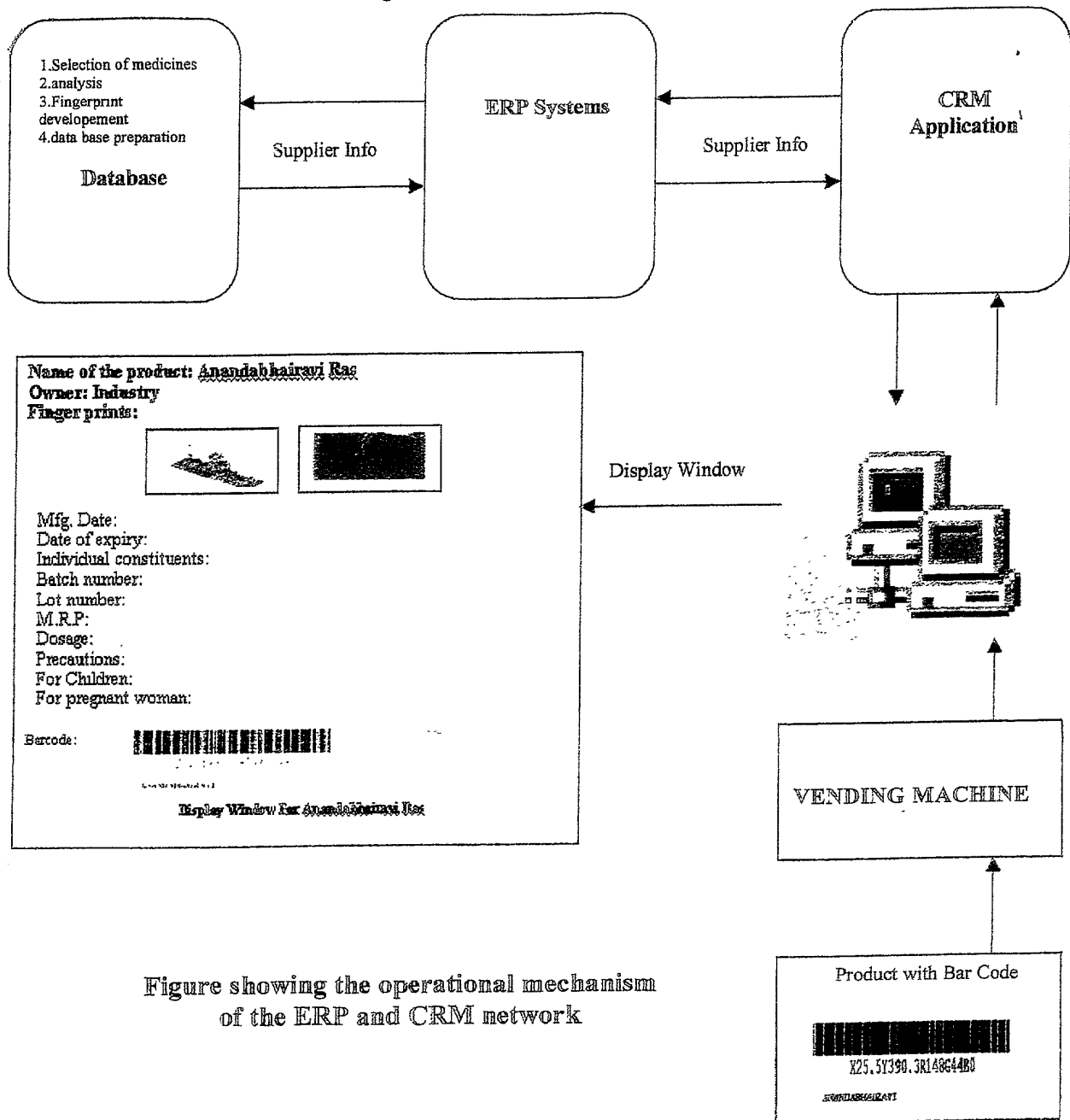
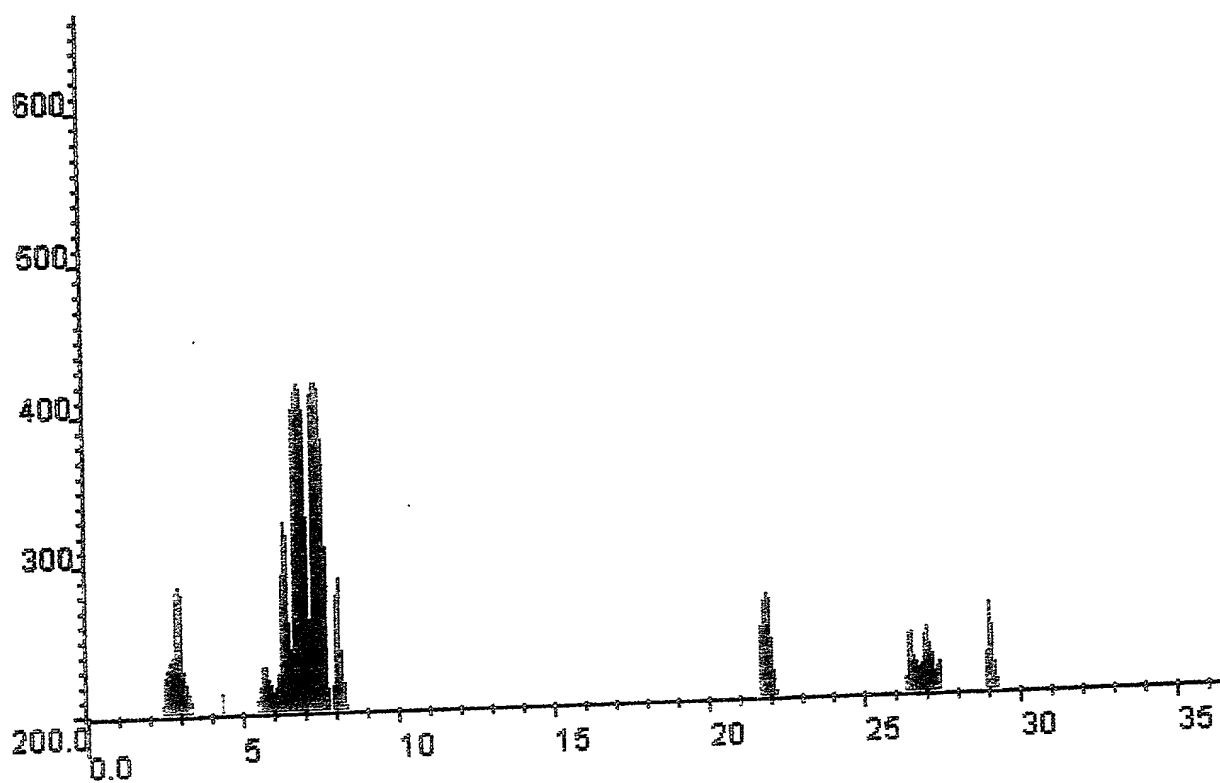
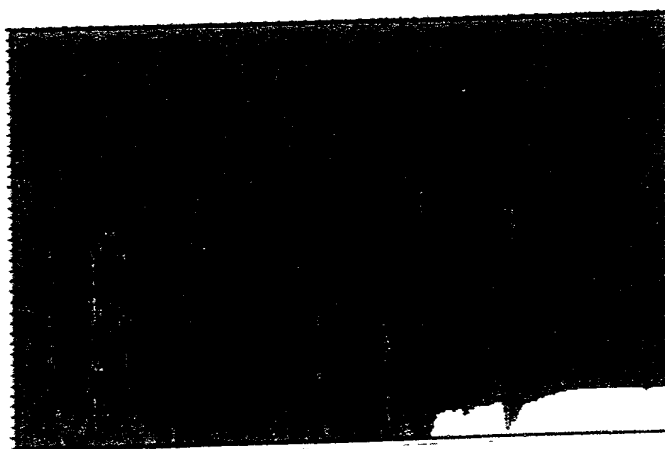


Figure showing the operational mechanism of the ERP and CRM network

00770377 004404  
FOI b6 b7C



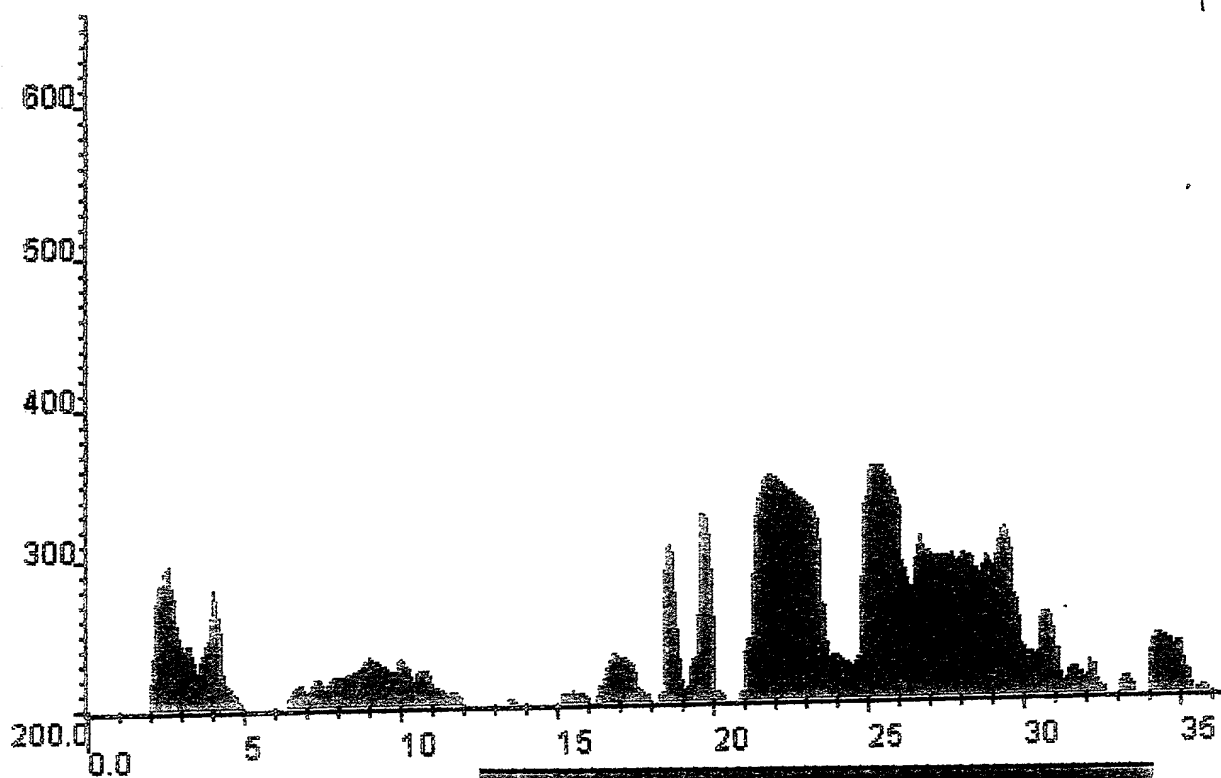
PeakNo	Area Of Pixels
1	271
2	8
3	1818
4	146
5	181
6	213
7	91



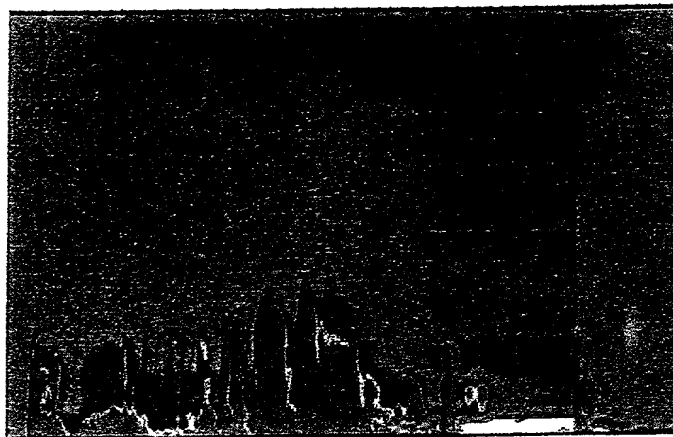
CHROMATOGRAM OF AZARDIRACTA INDICA  
(Tender leaves in February)

Figure 100



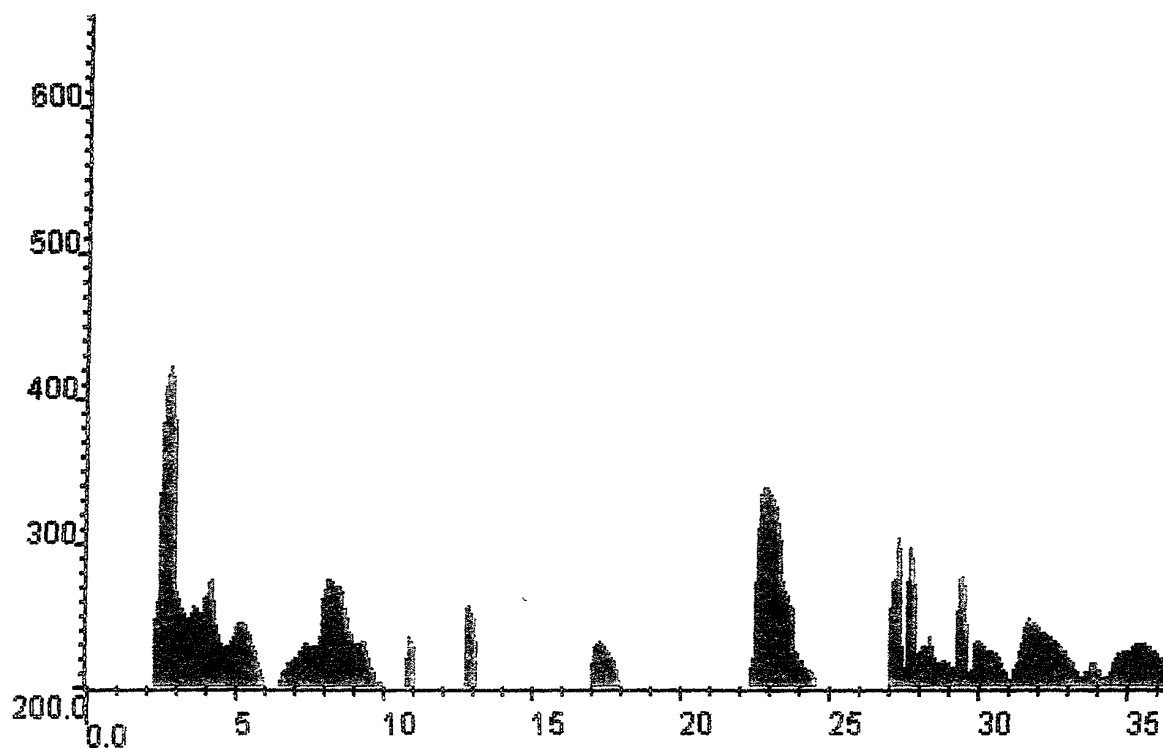


PeakNo	Area Of Pixels
1	1009
2	769
3	7
4	42
5	252
6	829
7	6984
8	35
9	322
10	12
11	405
12	9
13	59
14	106
15	8
16	31

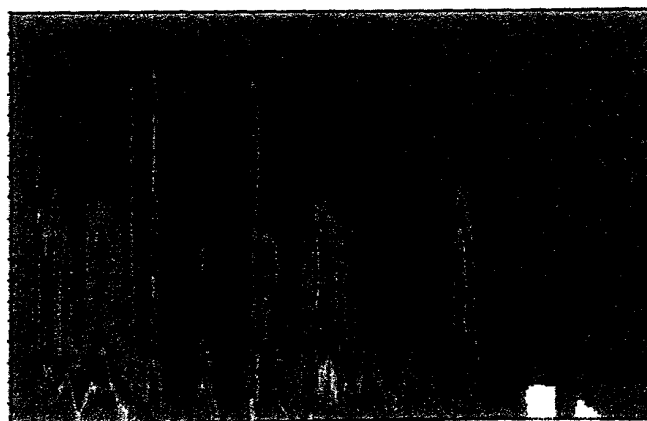


PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 101



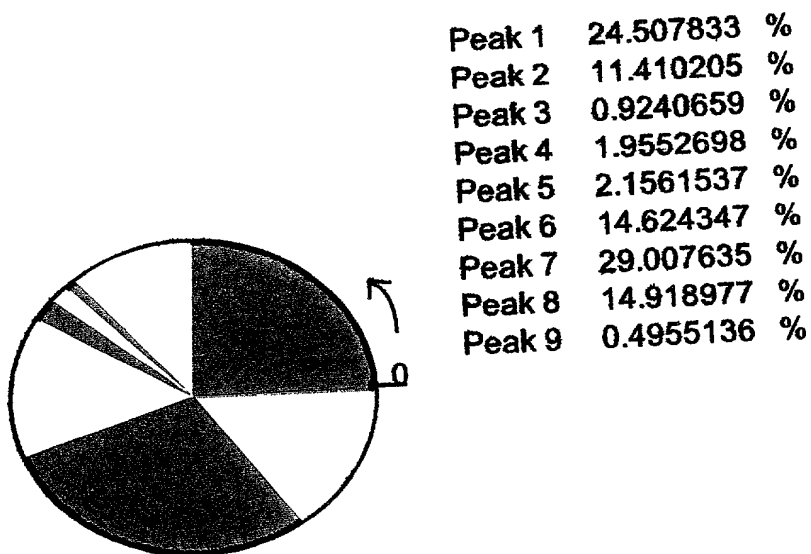
PeakNo	Area Of Pixels
1	1830
2	852
3	69
4	146
5	161
6	1092
7	2166
8	1114
9	37



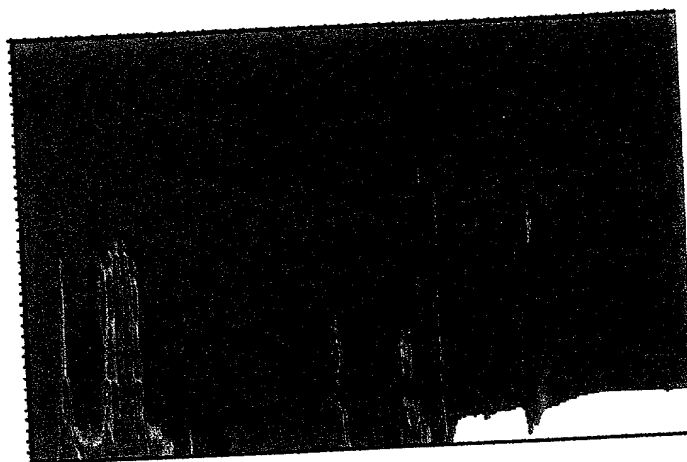
CHROMATOGRAM OF KRIMIKUTARA RAS

Figure 102

Figure 103

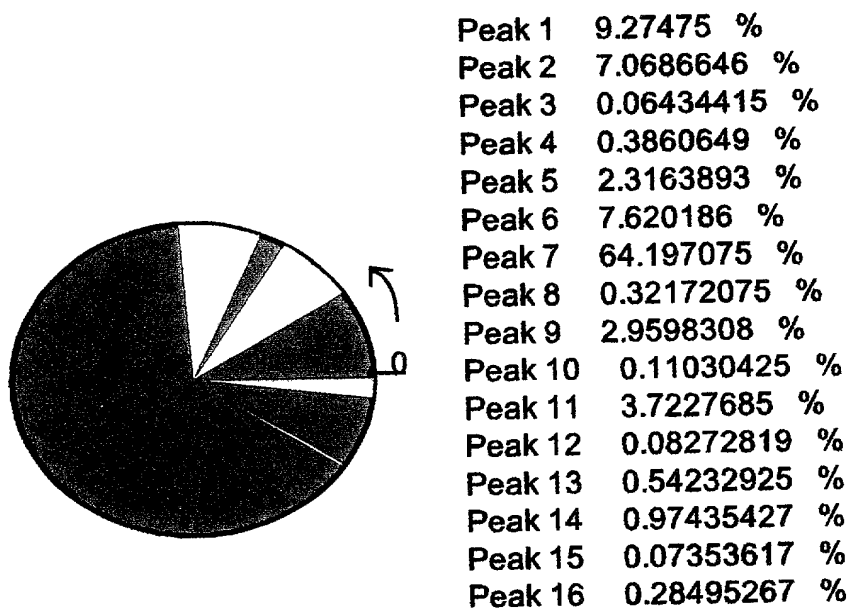


Percentage of pixels represents the constituents.



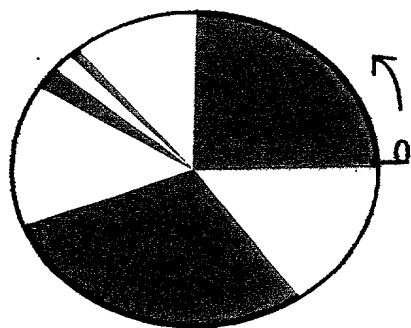
**PIE DIAGRAM OF AZARDIRACTA INDICA**  
(Tender leaves in February)

Figure 104

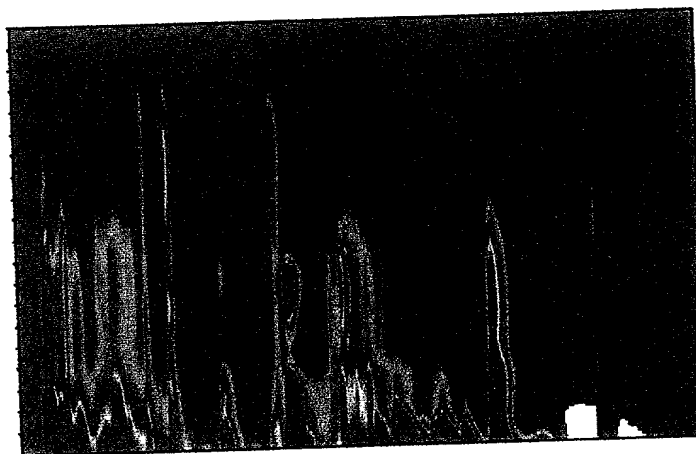


PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 105



Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%

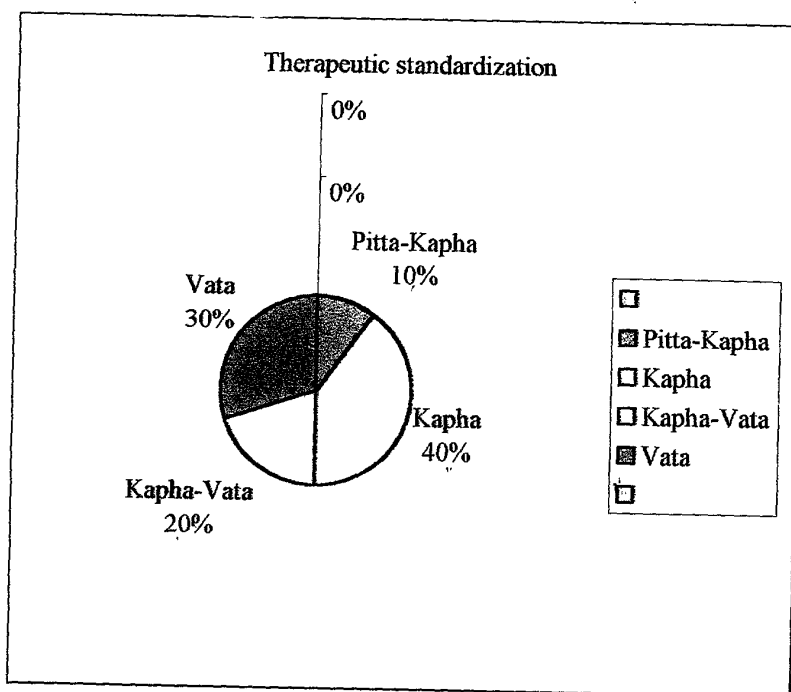


PIE DIAGRAM OF KRIMIKUTARA RAS

**Figure 106**

Pixel values or percentage values from graphs.

Pitta-Kapha: 10  
Kapha 40  
Kapha-Vat. 20  
Vata 30

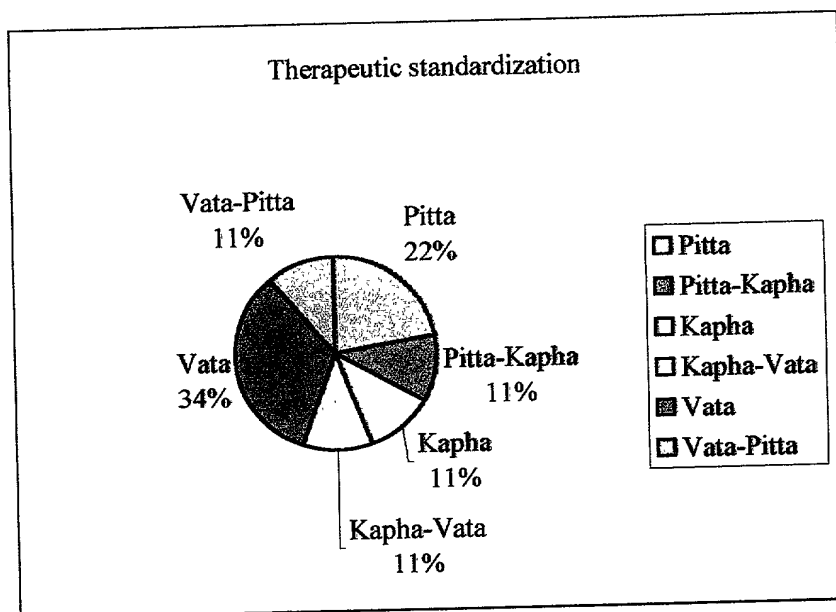


This gives the efficacy of the medicine due to the constituents present in various zones of the fingerprint.

The values of pixels were taken generally and are not for a chromatogram. This figure only shows only how it appears.

Figure 107

Pitta	23
Pitta-Kapha	11
Kapha	11
Kapha-Vata	11
Vata	34
Vata-Pitta	11

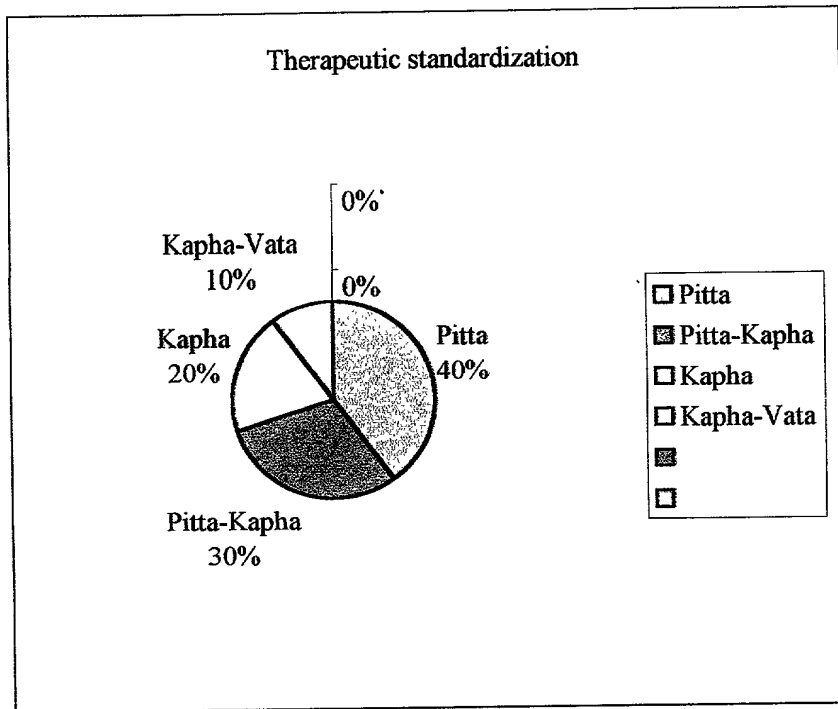


00770377 00440  
P.07160 2202/00

Figure 108

Pitta  
Pitta-Kaph.  
Kapha  
Kapha-Vat

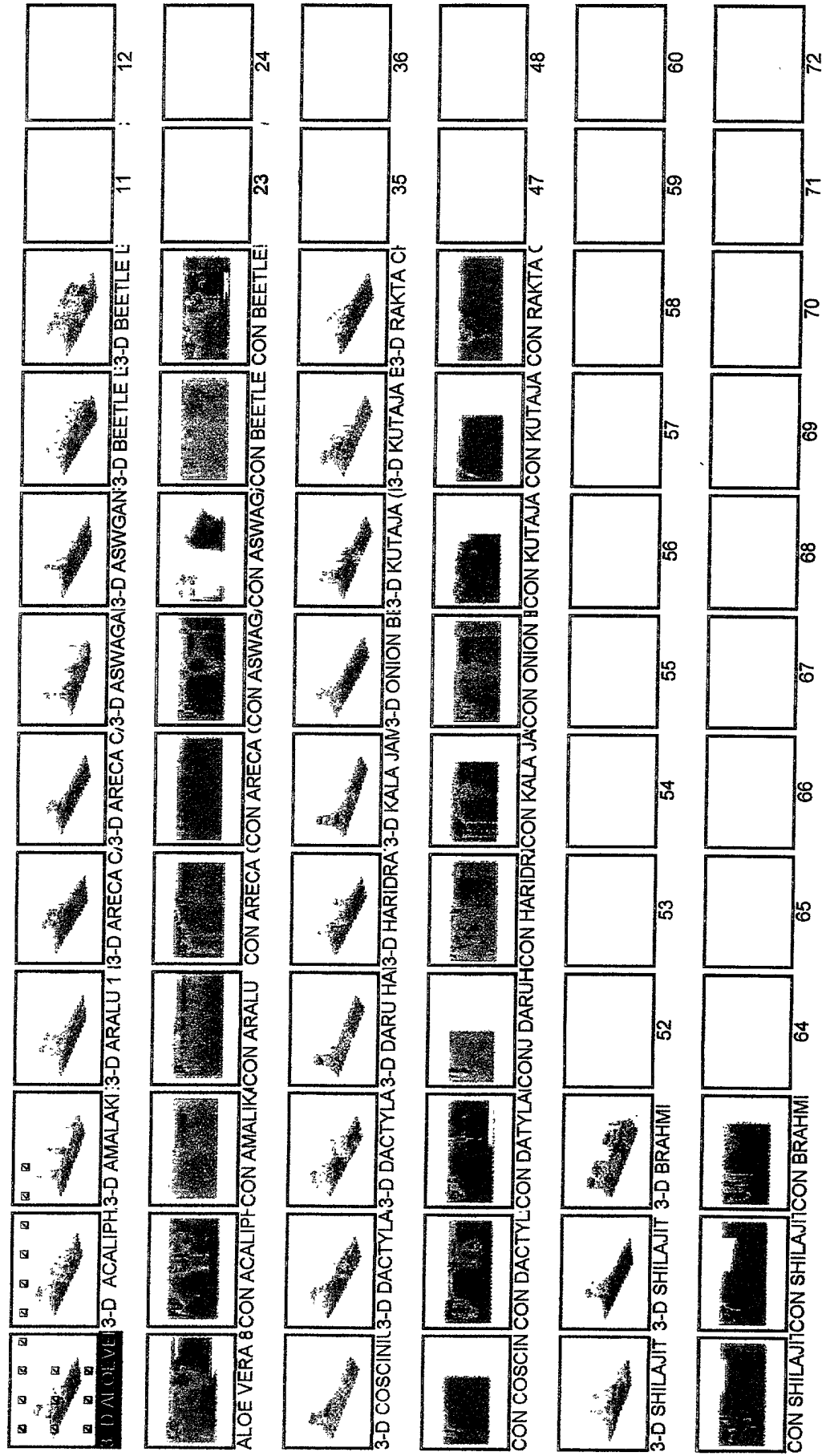
40  
30  
20  
10



097937 0444  
T04T60 426666

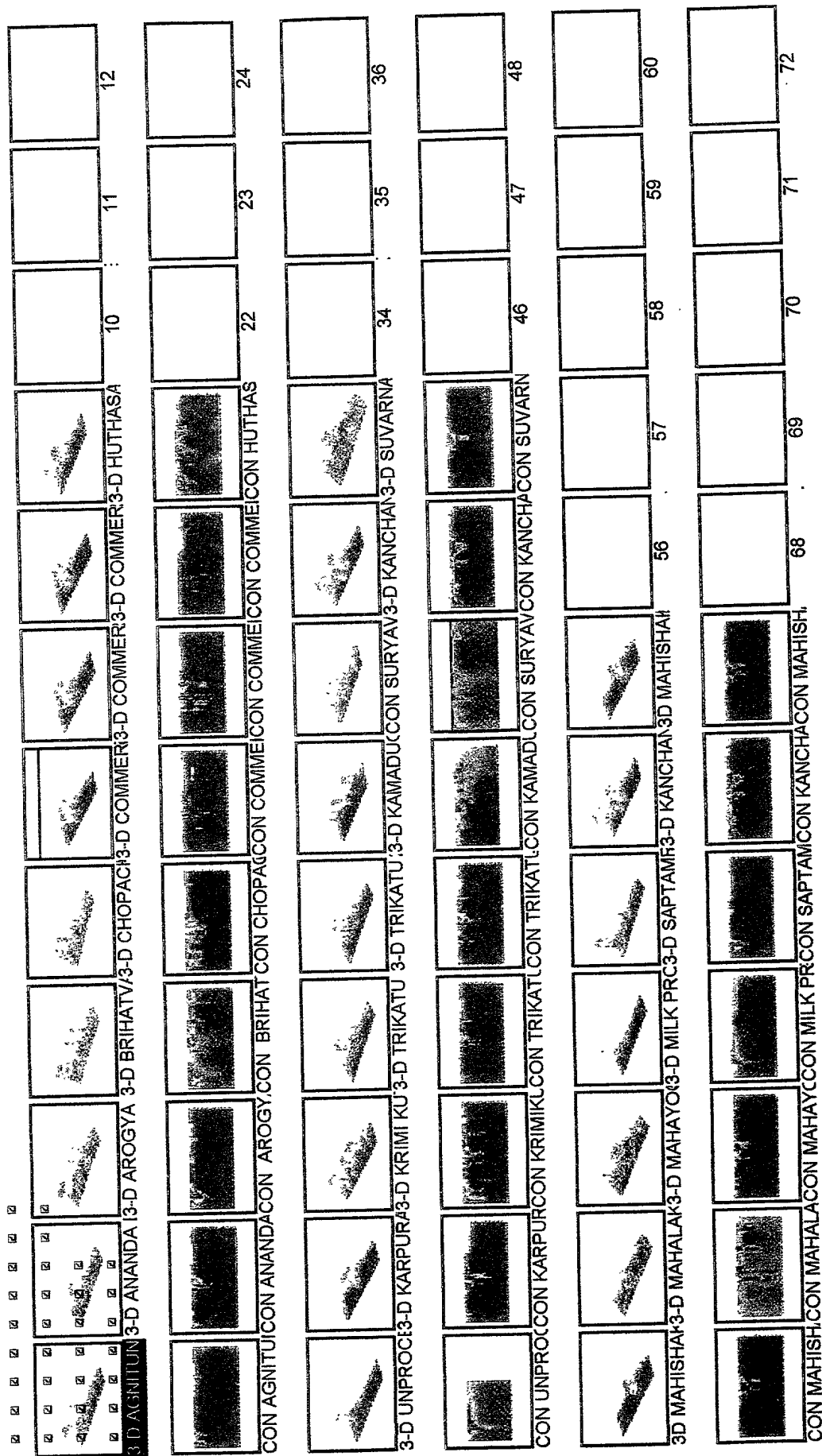


**Figure 109**



C:\WINDOWS\DESKTOP\Director files\HERBAL FORMULATIONS

### Figure 110



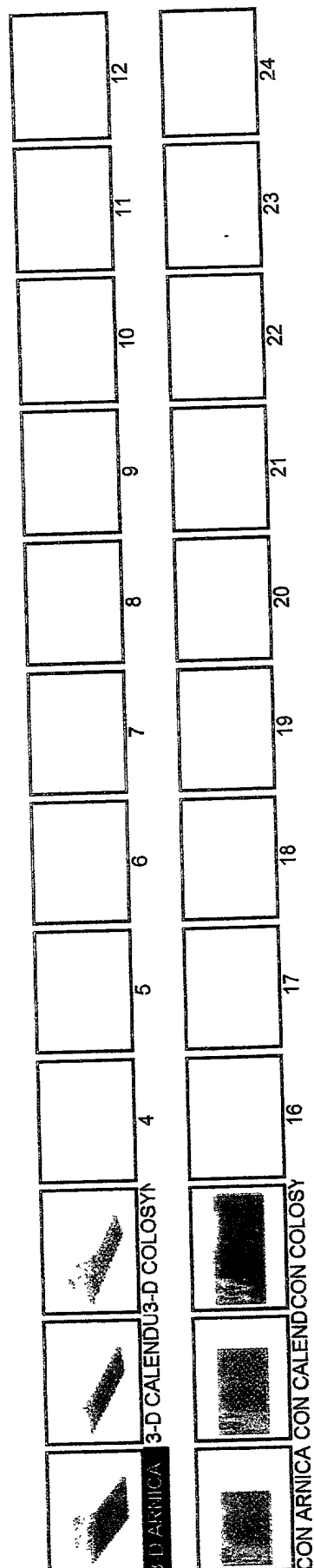
These will help the industry to monitor their product profile for the market and also for proper standardization to prepare a formulation.



Fri, Sep 22, 2000

C:\WINDOWS\DESKTOP\Director files\HOMEO MEDICINES

**Figure 112**

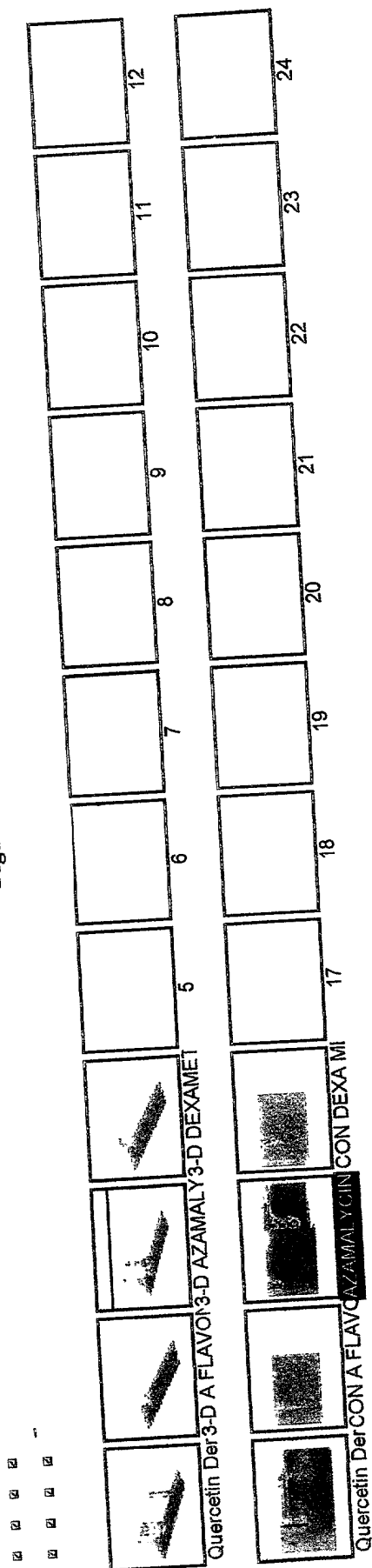


The fingerprint of Mother tincture only were done. They can be done to the level of femto gram level as the PDA detectives are very sensitive. Hence dilution can also be fingerprinted.

Fri, Sep 22, 2000

C:\WINDOWS\DESKTOP\Director files\ISOLATED COMPOUNDS

Figure 113



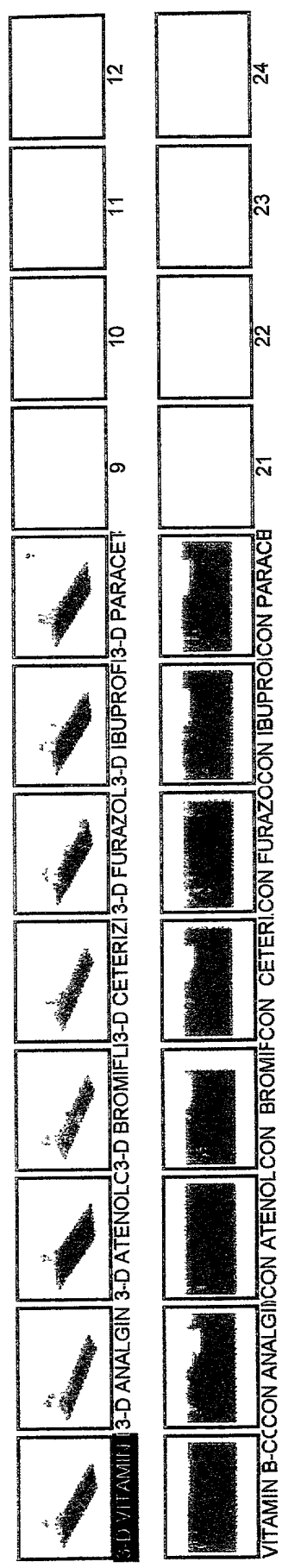
This helps to know the purity after isolation and to know the UV spectra of an unknown molecule.

Fri, Sep 22, 2000

C:\WINDOWS\DESKTOP\Director files\ALLOPATHIC MEDICINES

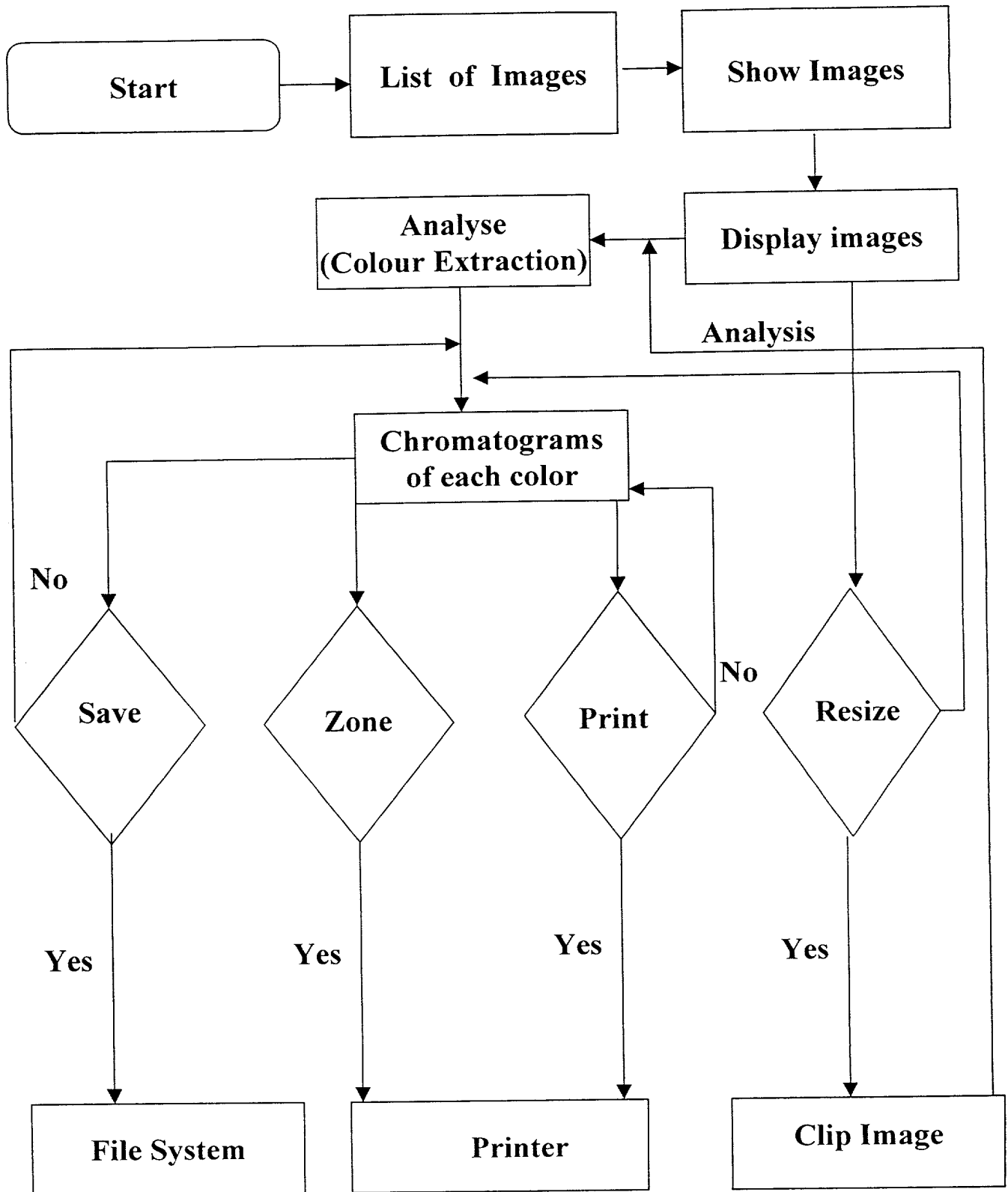
3-D ANALGIN 3-D ATENOL 3-D BROMIFL 3-D CETERIZ 3-D FURAZOL 3-D IBUPROF 3-D PARACE

Figure 114



This method can be used for all allopathic medicines for chemical and therapeutic standardization.

Figure 115



OPERATIONAL SEQUENCE OF SOFTWARE